

PRODUCT SPECIFICATIONS



13 SEER

1½ - 5 TONS

NOMINAL COOLING CAPACITY

18,000 TO 60,000 BTU/H

NOMINAL HEATING CAPACITY

17,200 TO 54,300 BTU/H



* Full warranty details available at www.goodmanmfg.com.

VSH13

13 SEER SPLIT SYSTEM HEAT PUMP

The VSH13 heat pump features a louvered metal guard that protects the coil from damage and strengthens the unit. Designed for ground-level or rooftop mount, the unit has a base pan that elevates it above the slab for excellent water drainage.

Standard Features

- Energy-efficient compressor
- R-22 refrigerant-charged for 15' of refrigerant lines
- Quiet condenser fan system
- Copper tube/aluminum fin coil
- Liquid refrigerant return protection
- Factory-installed bi-flow liquid line filter dryer
- Low-pressure switch
- Time-initiated, temperature-terminated defrost control
- Service valves with sweat connections and easy-access gauge ports
- 13 SEER performance with flowrater expansion device
- Ground lug connection
- ARI Certified; ETL Listed

Cabinet Features

- Louver design sound control top for quiet operation
- Steel louver coil guard
- Heavy-gauge, galvanized-steel cabinet with rust-resistant screws
- Attractive Bahama Beige powder-paint finish with 500-hour salt-spray approval
- Single-panel access to controls with space provided for field-installed accessories
- When properly anchored, meets the 2001 Florida Building Code unit integrity requirements for hurricane-type winds

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NOMENCLATURE

	V	S	H	13	18	1	A	A	
	1	2	3	4,5	6,7,8	9	10	11	
Brand	V GMC Product Family								Engineering *
									Minor Revision
Product Category	S Split System								Engineering *
									Major Revision
Unit Type									Electrical
C Condenser R-22									1 208/230 V, 1 Phase, 60 Hz
H Heat Pump R-22									2 220/240 V, 1 Phase, 50 Hz
Efficiency									Nominal Capacity
13 13 SEER									018 1½ Tons 042 3½ Tons
									024 2 Tons 048 4 Tons
									030 2½ Tons 060 5 Tons
									036 3 Tons

* Neither used for order entry or inventory management.

SPECIFICATIONS

	VSH13 0181AA	VSH13 0191AA	VSH13 0241AA	VSH13 0251AA	VSH13 0301AA	VSH13 0311AA	VSH13 0361AA	VSH13 0421AA	VSH13 0481AA	VSH13 0601AA
Capacities and Ratings										
Nominal Cooling (BTU/h)	18,000	18,000	23,000	23,000	28,000	28,000	35,000	40,000	45,000	55,500
Nominal Heating (BTU/h)	16,800	16,800	22,000	22,600	26,800	25,600	32,000	39,000	43,000	55,500
SEER	13	13	13	13	13	13	13	13	13	13
Decibels	78	78	78	78	78	76	80	76	76	77
Compressor										
RLA	6.2	9.0	9.2	10.9	10.8	12.2	12.2	16.5	17.9	25.0
LRA	34.0	41.0	43.0	54.0	60.0	63.0	73.0	95.0	104.0	148.0
Type	Recip	Scroll	Recip	Scroll	Recip	Scroll	Recip	Scroll	Scroll	Scroll
Condenser Fan Motor										
Horsepower	1/6	1/6	1/6	1/6	1/6	1/6	¼	¼	¼	1/6
FLA	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.6	1.6	1.1
Refrigerant System										
Refrigerant Line Size ¹										
Liquid Line Size ("O.D.)	¾"	¾"	¾"	¾"	¾"	¾"	¾"	¾"	¾"	¾"
Suction Line Size ("O.D.)	¾"	¾"	¾"	¾"	¾"	¾"	7/8"	1 1/8"	1 1/8"	1 1/8"
Refrigerant Connection Size										
Liquid Valve Size ("O.D.)	¾"	¾"	¾"	¾"	¾"	¾"	¾"	¾"	¾"	¾"
Suction Valve Size ("O.D.)	¾"	¾"	¾"	¾"	¾"	¾"	7/8"	7/8"	7/8"	7/8"
Valve Type	Sweat	Sweat	Sweat	Sweat	Sweat	Sweat	Sweat	Sweat	Sweat	Sweat
Refrigerant Charge	127	115	106	117	153	153	188	213	223	233
Shipped with Orifice Size	0.052	0.052	0.061	0.061	0.068	0.065	0.073	0.082	0.084	0.093
Electrical Data										
AC Volts	208/230	208/230	208/230	208/230	208/230	208/230	208/230	208/230	208/230	208/230
Frequency-Phase	60 Hz/1	60 Hz/1	60 Hz/1	60 Hz/1	60 Hz/1	60 Hz/1	60 Hz/1	60 Hz/1	60 Hz/1	60 Hz/1
Minimum Circuit Ampacity ²	9.3	12.7	13.0	15.1	15.0	16.7	16.9	22.3	27.8	32.3
Max. Overcurrent Protection ³	15	20	20	20	20	20	20	30	40	50
Min / Max Volts	197 / 253	197 / 253	197 / 253	197 / 253	197 / 253	197 / 253	197 / 253	197 / 253	197 / 253	197 / 253
Electrical Conduit Size	½" or ¾"	½" or ¾"	½" or ¾"	½" or ¾"	½" or ¾"	½" or ¾"	½" or ¾"	½" or ¾"	½" or ¾"	½" or ¾"
Ship Weight (lbs)	193	193	198	207	199	199	207	219	225	266

¹ Tested and rated in accordance with ARI Standard 210/240

² Wire size should be determined in accordance with National Electrical Codes; extensive wire runs will require larger wire sizes

³ Must use time-delay fuses or HACR-type circuit breakers of the same size as noted.

Notes

- Always check the S&R plate for electrical data on the unit being installed.
- Installer will need to supply 7/8" to 1 1/8" adapters for suction line connections.
- Unit is charged with refrigerant for 15' of 3/8" liquid line. System charge must be adjusted per Installation Instructions Final Charge Procedure.
- Installation of these units requires the specified TXV Kit to be installed on the indoor coil. THE SPECIFIED TXV IS DETERMINED BY THE OUTDOOR UNIT NOT THE INDOOR COIL.

EXPANDED HEATING DATA

VSH130181A*

	Outdoor Ambient Temperature																	
	65	60	55	50	47	45	40	35	30	25	20	17	15	10	5	0	-5	-10
MBh	21.1	20.0	18.8	17.6	16.8	16.3	15.1	13.9	10.7	9.9	9.1	8.6	8.3	7.4	6.6	5.7	4.9	4.0
ΔT	32.6	30.9	29.0	27.1	25.9	25.1	23.3	21.5	16.5	15.3	14.1	13.3	12.8	11.5	10.2	8.9	7.6	6.2
kW	1.57	1.54	1.51	1.48	1.46	1.45	1.42	1.39	1.30	1.27	1.24	1.23	1.22	1.19	1.16	1.13	1.10	1.08
Amps	7.3	6.8	6.4	6.0	5.8	5.7	5.4	5.1	4.9	4.7	4.4	4.3	4.3	4.1	3.8	3.6	3.3	3.0
COP	3.94	3.80	3.65	3.48	3.36	3.29	3.12	2.94	2.41	2.28	2.14	2.05	1.99	1.83	1.66	1.49	1.30	1.09
EER	13.5	13.0	12.5	11.9	11.5	11.2	10.6	10.0	8.2	7.8	7.3	7.0	6.8	6.3	5.7	5.1	4.4	3.7
HI PR	241	231	222	213	208	204	196	188	180	172	165	161	158	152	146	140	135	131
LO PR	83	77	72	66	62	60	55	49	44	40	35	32	31	26	23	19	17	13

VSH130191A*

	Outdoor Ambient Temperature																	
	65	60	55	50	47	45	40	35	30	25	20	17	15	10	5	0	-5	-10
MBh	21.1	20.0	18.8	17.6	16.8	16.3	15.1	13.9	10.7	9.9	9.1	8.6	8.3	7.4	6.6	5.7	4.9	4.0
ΔT	32.6	30.9	29.0	27.1	25.9	25.1	23.3	21.5	16.5	15.3	14.1	13.3	12.8	11.5	10.2	8.9	7.6	6.2
kW	1.66	1.63	1.60	1.57	1.55	1.54	1.51	1.48	1.51	1.47	1.44	1.42	1.41	1.38	1.35	1.32	1.28	1.25
Amps	6.3	5.9	5.5	5.2	5.1	5.0	4.7	4.5	4.3	4.2	4.0	3.9	3.9	3.7	3.5	3.3	3.1	2.8
COP	3.73	3.59	3.45	3.29	3.17	3.10	2.94	2.76	2.08	1.96	1.85	1.77	1.72	1.58	1.43	1.28	1.12	0.94
EER	12.7	12.3	11.8	11.2	10.8	10.6	10.0	9.4	7.1	6.7	6.3	6.0	5.9	5.4	4.9	4.4	3.8	3.2
HI PR	186	178	171	164	160	157	151	145	139	132	127	124	122	117	113	108	104	101
LO PR	84	78	73	67	64	61	56	50	45	40	36	33	32	27	23	20	17	13

VSH130241A*

	Outdoor Ambient Temperature																	
	65	60	55	50	47	45	40	35	30	25	20	17	15	10	5	0	-5	-10
MBh	27.7	26.2	24.6	23.0	22.0	21.3	19.8	18.3	15.0	13.8	12.7	12.0	11.6	10.4	9.2	8.0	6.8	5.6
ΔT	31.2	29.6	27.8	26.0	24.8	24.1	22.4	20.6	16.9	15.6	14.3	13.6	13.0	11.7	10.4	9.1	7.7	6.3
kW	2.09	2.05	2.01	1.97	1.95	1.93	1.89	1.85	1.76	1.73	1.69	1.66	1.65	1.61	1.57	1.53	1.49	1.46
Amps	9.6	8.9	8.3	7.8	7.6	7.4	7.0	6.6	6.4	6.1	5.8	5.7	5.6	5.3	4.9	4.7	4.3	3.9
COP	3.87	3.73	3.58	3.42	3.30	3.23	3.06	2.89	2.48	2.34	2.20	2.11	2.05	1.89	1.71	1.53	1.34	1.13
EER	13.2	12.8	12.2	11.7	11.3	11.0	10.5	9.9	8.5	8.0	7.5	7.2	7.0	6.4	5.9	5.2	4.6	3.9
HI PR	261	250	240	230	224	220	212	203	195	186	178	174	171	164	158	152	146	141
LO PR	80	74	70	64	61	58	54	48	43	38	34	31	30	26	22	19	16	13

VSH130251A*

	Outdoor Ambient Temperature																	
	65	60	55	50	47	45	40	35	30	25	20	17	15	10	5	0	-5	-10
MBh	28.4	26.9	25.3	23.7	22.6	21.9	20.3	18.8	17.1	15.7	14.5	13.7	13.2	11.8	10.5	9.1	7.8	6.4
ΔT	32.1	30.4	28.6	26.7	25.5	24.7	23.0	21.2	19.3	17.8	16.4	15.5	14.9	13.4	11.8	10.3	8.8	7.2
kW	2.31	2.27	2.23	2.18	2.16	2.14	2.10	2.05	1.90	1.86	1.82	1.80	1.78	1.74	1.70	1.66	1.62	1.58
Amps	11.1	10.3	9.7	9.1	8.8	8.7	8.2	7.8	7.5	7.2	6.9	6.8	6.7	6.4	6.0	5.7	5.3	4.9
COP	3.59	3.47	3.33	3.17	3.07	3.00	2.84	2.67	2.62	2.48	2.33	2.23	2.17	1.99	1.81	1.61	1.41	1.19
EER	12.3	11.8	11.4	10.8	10.5	10.2	9.7	9.1	9.0	8.5	8.0	7.6	7.4	6.8	6.2	5.5	4.8	4.0
HI PR	178	170	164	157	153	150	144	138	133	127	122	119	117	112	108	103	100	96
LO PR	76	71	66	61	58	55	51	45	41	37	32	30	29	24	21	18	15	12

VSH130301A*

	Outdoor Ambient Temperature																	
	65	60	55	50	47	45	40	35	30	25	20	17	15	10	5	0	-5	-10
MBh	33.7	31.9	30.0	28.1	26.8	26.0	24.1	22.2	17.4	16.1	14.8	14.0	13.5	12.1	10.7	9.4	8.0	6.5
ΔT	29.7	28.1	26.5	24.7	23.6	22.9	21.3	19.6	15.4	14.2	13.1	12.3	11.9	10.7	9.5	8.2	7.0	5.8
kW	2.41	2.36	2.32	2.27	2.24	2.22	2.18	2.13	2.08	2.04	1.99	1.96	1.95	1.90	1.85	1.81	1.76	1.72
Amps	11.1	10.3	9.6	9.1	8.7	8.6	8.1	7.7	7.3	7.0	6.7	6.5	6.4	6.1	5.7	5.3	4.9	4.4
COP	4.09	3.95	3.79	3.62	3.50	3.42	3.24	3.05	2.45	2.31	2.18	2.09	2.03	1.86	1.69	1.51	1.32	1.11
EER	14.0	13.5	13.0	12.4	11.9	11.7	11.1	10.4	8.4	7.9	7.4	7.1	6.9	6.4	5.8	5.2	4.5	3.8
HI PR	234	224	216	206	202	198	190	182	175	167	160	156	154	148	142	136	131	127
LO PR	76	70	66	61	57	55	51	45	41	36	32	30	29	24	21	18	15	12

High pressure is measured at the suction service valve (the larger valve).

Low pressure is measured at the gauge port connection.

Calculations are based on nominal CFM and 70 °F indoor dry bulb.

Amps = Outdoor unit amps (comp.+fan)

kW = Total system power

EXPANDED HEATING DATA (CONT.)

VSH130311A*

	Outdoor Ambient Temperature																	
	65	60	55	50	47	45	40	35	30	25	20	17	15	10	5	0	-5	-10
MBh	32.2	30.5	28.7	26.8	25.6	24.8	23.0	21.2	23.7	21.8	20.1	19.0	18.3	16.4	14.5	12.7	10.8	8.9
ΔT	28.4	26.9	25.3	23.6	22.6	21.9	20.3	18.7	20.9	19.3	17.7	16.7	16.1	14.5	12.8	11.2	9.5	7.8
kW	2.55	2.49	2.44	2.39	2.36	2.33	2.28	2.23	2.00	1.95	1.90	1.87	1.86	1.81	1.76	1.71	1.66	1.62
Amps	12.6	11.7	11.0	10.3	10.0	9.8	9.3	8.8	8.5	8.1	7.7	7.6	7.5	7.1	6.7	6.3	5.9	5.3
COP	3.70	3.58	3.44	3.29	3.18	3.11	2.96	2.79	3.47	3.28	3.09	2.97	2.89	2.66	2.42	2.17	1.90	1.61
EER	12.6	12.2	11.8	11.2	10.9	10.6	10.1	9.5	11.8	11.2	10.6	10.1	9.9	9.1	8.3	7.4	6.5	5.5
HI PR	254	243	234	224	218	214	206	198	189	181	174	170	166	160	154	148	142	137
LO PR	76	71	66	61	57	55	51	45	41	36	32	30	29	24	21	18	15	12

VSH130361A*

	Outdoor Ambient Temperature																	
	65	60	55	50	47	45	40	35	30	25	20	17	15	10	5	0	-5	-10
MBh	40.2	38.1	35.8	33.5	32.0	31.0	28.8	26.6	19.9	18.4	16.9	16.0	15.4	13.8	12.3	10.7	9.1	7.5
ΔT	29.2	27.7	26.0	24.3	23.2	22.5	20.9	19.3	14.5	13.4	12.3	11.6	11.2	10.0	8.9	7.8	6.6	5.4
kW	2.90	2.84	2.79	2.73	2.70	2.68	2.63	2.58	2.42	2.37	2.32	2.29	2.27	2.22	2.17	2.12	2.07	2.02
Amps	13.0	12.1	11.3	10.7	10.3	10.1	9.5	9.1	8.7	8.3	7.9	7.7	7.6	7.3	6.8	6.4	5.9	5.4
COP	4.07	3.92	3.76	3.59	3.46	3.39	3.21	3.02	2.41	2.27	2.14	2.05	1.99	1.82	1.65	1.48	1.29	1.08
EER	13.9	13.4	12.9	12.3	11.8	11.6	11.0	10.3	8.2	7.8	7.3	7.0	6.8	6.2	5.7	5.0	4.4	3.7
HI PR	230	221	212	203	198	194	187	179	172	164	158	154	151	145	140	134	129	125
LO PR	80	74	70	64	60	58	54	48	43	38	34	31	30	26	22	19	16	13

VSH130421A*

	Outdoor Ambient Temperature																	
	65	60	55	50	47	45	40	35	30	25	20	17	15	10	5	0	-5	-10
MBh	49.0	46.4	43.7	40.8	39.0	37.8	35.1	32.4	28.7	26.5	24.4	23.0	22.1	19.9	17.6	15.4	13.1	10.7
ΔT	30.3	28.6	27.0	25.2	24.1	23.3	21.7	20.0	17.7	16.3	15.0	14.2	13.7	12.3	10.9	9.5	8.1	6.6
kW	3.59	3.52	3.46	3.39	3.35	3.32	3.26	3.19	3.08	3.01	2.95	2.91	2.88	2.82	2.75	2.69	2.62	2.56
Amps	16.7	15.5	14.5	13.6	13.1	12.9	12.1	11.5	11.0	10.5	10.0	9.8	9.7	9.2	8.6	8.1	7.4	6.7
COP	4.00	3.86	3.70	3.53	3.41	3.33	3.15	2.97	2.72	2.57	2.42	2.31	2.25	2.06	1.87	1.67	1.46	1.23
EER	13.7	13.2	12.6	12.1	11.6	11.4	10.8	10.1	9.3	8.8	8.3	7.9	7.7	7.1	6.4	5.7	5.0	4.2
HI PR	237	227	218	209	204	200	192	184	177	169	162	158	155	149	144	138	133	128
LO PR	75	70	65	60	57	54	50	45	40	36	32	29	28	24	21	17	15	12

VSH130481A*

	Outdoor Ambient Temperature																	
	65	60	55	50	47	45	40	35	30	25	20	17	15	10	5	0	-5	-10
MBh	54.1	51.2	48.2	45.0	43.0	41.7	38.7	35.7	33.6	31.1	28.6	27.0	26.0	23.3	20.7	18.0	15.4	12.6
ΔT	31.3	29.6	27.9	26.1	24.9	24.1	22.4	20.7	19.5	18.0	16.5	15.6	15.0	13.5	12.0	10.4	8.9	7.3
kW	3.84	3.77	3.70	3.63	3.59	3.56	3.49	3.42	3.34	3.27	3.20	3.16	3.13	3.06	3.00	2.93	2.86	2.79
Amps	18.1	16.8	15.7	14.8	14.3	14.0	13.2	12.5	12.0	11.5	10.9	10.7	10.5	10.0	9.3	8.8	8.1	7.3
COP	4.12	3.98	3.81	3.63	3.51	3.43	3.24	3.05	2.95	2.78	2.62	2.50	2.43	2.23	2.02	1.80	1.58	1.32
EER	14.1	13.6	13.0	12.4	12.0	11.7	11.1	10.4	10.1	9.5	8.9	8.5	8.3	7.6	6.9	6.2	5.4	4.5
HI PR	224	215	207	198	193	189	182	175	167	160	154	150	147	142	136	131	126	121
LO PR	74	69	64	59	56	54	49	44	40	35	31	29	28	24	20	17	15	12

VSH130601A*

	Outdoor Ambient Temperature																	
	65	60	55	50	47	45	40	35	30	25	20	17	15	10	5	0	-5	-10
MBh	69.8	66.0	62.2	58.1	55.5	53.8	50.0	46.1	43.6	40.3	37.1	35.0	33.7	30.2	26.8	23.4	20.0	16.3
ΔT	35.9	34.0	32.0	29.9	28.5	27.7	25.7	23.7	22.4	20.7	19.1	18.0	17.3	15.6	13.8	12.0	10.3	8.4
KW	5.04	4.95	4.85	4.75	4.70	4.66	4.57	4.47	4.30	4.21	4.11	4.06	4.02	3.93	3.84	3.75	3.65	3.56
AMPS	22.7	21.0	19.6	18.4	17.8	17.4	16.4	15.6	14.9	14.2	13.5	13.2	13.0	12.4	11.5	10.8	10.0	9.0
COP	4.05	3.91	3.75	3.58	3.46	3.38	3.20	3.02	2.97	2.80	2.64	2.52	2.45	2.25	2.05	1.83	1.60	1.34
EER	13.8	13.4	12.8	12.2	11.8	11.5	10.9	10.3	10.1	9.6	9.0	8.6	8.4	7.7	7.0	6.2	5.5	4.6
HI PR	255	244	235	225	219	215	207	198	190	182	174	170	167	161	155	148	143	138
LO PR	75	70	65	60	57	54	50	45	40	36	32	29	28	24	21	17	15	12

High pressure is measured at the suction service valve (the larger valve).

Low pressure is measured at the gauge port connection.

Calculations are based on nominal CFM and 70 °F indoor dry bulb.

Amps = Outdoor unit amps (comp.+fan)

kW = Total system power

EXPANDED COOLING DATA — VSH130181A***

		Outdoor Ambient Temperature												115°F											
		65°F				75°F				85°F				95°F				105°F				115°F			
IDB	Airflow	59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71
70	MBh	17.6	18.3	20.0	-	17.2	17.9	19.6	-	16.8	17.4	19.1	-	16.4	17.0	18.6	-	15.6	16.2	17.7	-	14.4	15.0	16.4	-
	S/T	0.74	0.62	0.43	-	0.76	0.64	0.44	-	0.78	0.65	0.45	-	0.81	0.67	0.47	-	0.84	0.70	0.49	-	0.85	0.71	0.49	-
	ΔT	18	15	12	-	18	16	12	-	18	16	12	-	18	16	12	-	18	15	12	-	17	14	11	-
	675	1.26	1.29	1.33	-	1.36	1.39	1.43	-	1.44	1.47	1.52	-	1.51	1.55	1.59	-	1.57	1.61	1.66	-	1.63	1.66	1.72	-
	Amps	4.8	4.9	5.1	-	5.2	5.3	5.5	-	5.6	5.7	5.9	-	6.0	6.1	6.3	-	6.4	6.5	6.7	-	6.7	6.9	7.1	-
	HI PR	137	147	156	-	154	165	175	-	175	188	199	-	199	214	226	-	224	241	255	-	248	266	281	-
	LO PR	63	67	73	-	66	70	77	-	69	73	80	-	72	77	84	-	76	81	88	-	78	83	91	-
	MBh	17.1	17.7	19.4	-	16.7	17.3	19.0	-	16.3	16.9	18.5	-	15.9	16.5	18.1	-	15.1	15.7	17.2	-	14.0	14.5	15.9	-
	S/T	0.70	0.59	0.41	-	0.73	0.61	0.42	-	0.75	0.62	0.43	-	0.77	0.64	0.45	-	0.80	0.67	0.46	-	0.81	0.67	0.47	-
	ΔT	18	16	12	-	19	16	12	-	19	16	12	-	19	16	12	-	19	16	12	-	17	15	11	-
	600	1.26	1.28	1.32	-	1.35	1.38	1.42	-	1.43	1.46	1.50	-	1.50	1.53	1.58	-	1.56	1.60	1.65	-	1.61	1.65	1.70	-
Amps	4.8	4.9	5.0	-	5.1	5.2	5.4	-	5.6	5.7	5.9	-	5.9	6.1	6.3	-	6.3	6.4	6.7	-	6.7	6.8	7.1	-	
HI PR	136	146	154	-	152	164	173	-	173	186	197	-	197	212	224	-	222	239	252	-	245	264	279	-	
LO PR	62	66	72	-	66	70	76	-	68	72	79	-	72	76	83	-	75	80	87	-	78	83	90	-	
525	MBh	15.8	16.4	17.9	-	15.4	16.0	17.5	-	15.1	15.6	17.1	-	14.7	15.2	16.7	-	14.0	14.5	15.9	-	12.9	13.4	14.7	-
	S/T	0.68	0.57	0.39	-	0.70	0.59	0.41	-	0.72	0.60	0.42	-	0.74	0.62	0.43	-	0.77	0.64	0.45	-	0.78	0.65	0.45	-
	ΔT	19	16	12	-	19	16	12	-	19	16	12	-	19	17	13	-	19	16	12	-	18	15	12	-
	KW	1.23	1.25	1.29	-	1.32	1.34	1.38	-	1.40	1.42	1.47	-	1.47	1.50	1.54	-	1.52	1.56	1.61	-	1.58	1.61	1.66	-
	AMPS	4.6	4.7	4.9	-	5.0	5.1	5.3	-	5.4	5.5	5.7	-	5.8	5.9	6.1	-	6.1	6.3	6.5	-	6.5	6.6	6.9	-
	HI PR	132	142	150	-	148	159	168	-	168	181	191	-	191	206	217	-	215	232	245	-	238	256	270	-
	LO PR	60	64	70	-	64	68	74	-	66	70	77	-	69	74	81	-	73	77	84	-	75	80	87	-

		Outdoor Ambient Temperature												115°F												115°F							
		65°F						75°F						85°F						95°F						105°F							
		Entering Indoor Wet Bulb Temperature																															
		IDB	Airflow	59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71		
675	MBh	17.94	18.47	19.99	21.45	17.52	18.04	19.53	20.96	17.10	17.61	19.06	20.46	16.69	17.18	18.60	19.96	15.85	16.32	17.67	18.96	14.68	15.12	16.36	17.56	14.68	15.12	16.36	17.56	14.68	15.12	16.36	17.56
	S/T	0.84	0.75	0.57	0.36	0.87	0.78	0.59	0.38	0.89	0.80	0.60	0.39	0.92	0.82	0.62	0.40	0.95	0.85	0.65	0.42	0.96	0.86	0.65	0.42	0.96	0.86	0.65	0.42	0.96	0.86	0.65	0.42
	ΔT	20	19	15	11	21	19	16	11	21	19	16	11	21	19	16	11	21	19	16	11	19	18	15	10	19	18	15	10	19	18	15	10
	kW	1.27	1.30	1.34	1.38	1.37	1.40	1.44	1.49	1.45	1.48	1.53	1.58	1.53	1.56	1.61	1.66	1.59	1.62	1.67	1.73	1.64	1.68	1.73	1.79	1.64	1.68	1.73	1.79	1.64	1.68	1.73	1.79
	Amps	4.8	4.9	5.1	5.3	5.2	5.3	5.5	5.7	5.7	5.8	6.0	6.2	6.0	6.2	6.4	6.6	6.4	6.6	6.8	7.0	6.8	7.0	7.2	7.5	6.8	7.0	7.2	7.5	6.8	7.0	7.2	7.5
	HI PR	138	149	157	164	155	167	177	184	177	190	201	209	201	217	229	238	226	244	257	268	250	269	284	296	250	269	284	296	250	269	284	296
	LO PR	63	67	74	78	67	71	78	83	70	74	81	86	73	78	85	90	77	81	89	95	79	84	92	98	79	84	92	98	79	84	92	98
	MBh	17.4	17.9	19.4	20.8	17.0	17.5	19.0	20.3	16.6	17.1	18.5	19.9	16.2	16.7	18.1	19.4	15.4	15.8	17.2	18.4	14.3	14.7	15.9	17.1	14.3	14.7	15.9	17.1	14.3	14.7	15.9	17.1
	S/T	0.80	0.71	0.54	0.35	0.83	0.74	0.56	0.36	0.85	0.76	0.57	0.37	0.88	0.78	0.59	0.38	0.91	0.81	0.62	0.40	0.92	0.82	0.62	0.40	0.92	0.82	0.62	0.40	0.92	0.82	0.62	0.40
	ΔT	21	20	16	11	22	20	16	11	22	20	16	11	22	20	16	11	21	20	16	11	20	18	15	10	20	18	15	10	20	18	15	10
600	kW	1.27	1.29	1.33	1.37	1.36	1.39	1.43	1.47	1.44	1.47	1.52	1.57	1.51	1.55	1.59	1.65	1.58	1.61	1.66	1.71	1.63	1.66	1.72	1.77	1.63	1.66	1.72	1.77	1.63	1.66	1.72	1.77
	Amps	4.8	4.9	5.1	5.2	5.2	5.3	5.5	5.7	5.6	5.7	5.9	6.1	6.0	6.1	6.3	6.6	6.4	6.5	6.7	7.0	6.7	6.9	7.1	7.4	6.7	6.9	7.1	7.4	6.7	6.9	7.1	7.4
	HI PR	137	147	156	162	154	166	175	182	175	188	199	207	199	214	226	236	224	241	255	266	248	266	281	293	248	266	281	293	248	266	281	293
	LO PR	63	67	73	78	66	70	77	82	69	73	80	85	72	77	84	89	76	81	88	94	78	83	91	97	78	83	91	97	78	83	91	97
	MBh	16.1	16.5	17.9	19.2	15.7	16.2	17.5	18.8	15.3	15.8	17.1	18.3	15.0	15.40	16.7	17.9	14.2	14.6	15.8	17.0	13.2	13.5	14.7	15.7	13.2	13.5	14.7	15.7	13.2	13.5	14.7	15.7
	S/T	0.77	0.69	0.52	0.34	0.80	0.71	0.54	0.35	0.82	0.73	0.55	0.36	0.84	0.76	0.57	0.37	0.88	0.78	0.59	0.38	0.88	0.79	0.60	0.38	0.88	0.79	0.60	0.38	0.88	0.79	0.60	0.38
	ΔT	22	20	16	11	22	20	17	11	22	20	17	11	22	20	17	12	22	20	16	11	20	19	15	11	20	19	15	11	20	19	15	11
	kW	1.24	1.26	1.30	1.34	1.33	1.35	1.40	1.44	1.41	1.44	1.48	1.53	1.48	1.51	1.56	1.61	1.54	1.57	1.62	1.67	1.59	1.62	1.68	1.73	1.59	1.62	1.68	1.73	1.59	1.62	1.68	1.73
	Amps	4.7	4.8	4.9	5.1	5.0	5.1	5.3	5.5	5.5	5.6	5.8	6.0	5.8	6.0	6.2	6.4	6.2	6.3	6.5	6.8	6.5	6.7	6.9	7.2	6.5	6.7	6.9	7.2	6.5	6.7	6.9	7.2
	HI PR	133	143	151	158	149	161	170	177	170	183	193	201	193	208	220	229	219	217	234	247	258	240	258	273	285	240	258	273	285	240	258	273
525	LO PR	61	65	71	75	64	68	75	79	67	71	78	83	70	75	81	87	73	78	85	91	76	81	88	94	76	81	88	94	76	81	88	94

EXPANDED COOLING DATA — VSH130181A*** (CONT.)

		Outdoor Ambient Temperature																																															
		65°F								75°F								85°F								95°F								105°F								115°F							
IDB	Airflow	59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71																
	MBh	18.26	18.65	19.93	21.31	17.83	18.22	19.47	20.81	17.41	17.79	19.00	20.31	16.98	17.35	18.54	19.82	16.13	16.49	17.61	18.83	14.94	15.27	16.32	17.44	16.13	16.49	17.61	18.83	14.94	15.27	16.32	17.44																
	S/T	0.92	0.86	0.70	0.52	0.95	0.89	0.73	0.54	1.00	0.92	0.74	0.56	1.00	0.94	0.77	0.57	1.00	1.00	0.80	0.60	1.00	1.00	0.80	0.60	1.00	1.00	0.80	0.60	1.00	1.00	0.80	0.60																
	ΔT	23	22	19	15	23	22	19	15	24	22	19	15	23	22	19	16	22	22	19	15	20	21	18	14	20	20	17	13	20	20	17	13																
	kW	1.28	1.31	1.35	1.39	1.38	1.41	1.45	1.50	1.46	1.49	1.54	1.59	1.54	1.57	1.62	1.67	1.60	1.64	1.69	1.74	1.66	1.69	1.75	1.80	1.66	1.69	1.74	1.79	1.66	1.69	1.75	1.80																
	Amps	4.9	5.0	5.2	5.3	5.3	5.4	5.6	5.8	5.7	5.8	6.0	6.3	6.1	6.2	6.4	6.7	6.5	6.6	6.8	7.1	6.9	7.0	7.2	7.5	6.9	7.0	7.2	7.5	6.9	7.0	7.2	7.5																
	HI/PR	140	150	159	166	157	169	178	186	178	192	203	211	203	219	231	241	229	246	260	271	253	272	287	299	253	272	287	299	253	272	287	299																
	LO/PR	64	68	74	79	68	72	78	84	70	75	82	87	74	78	86	91	77	82	90	96	80	85	93	99	80	85	93	99	80	85	93	99																
	MBh	17.7	18.1	19.4	20.7	17.3	17.7	18.9	20.2	16.9	17.3	18.5	19.7	16.5	16.8	18.0	19.2	15.7	16.0	17.1	18.3	14.5	14.8	15.8	16.9	14.5	14.8	15.8	16.9	14.5	14.8	15.8	16.9																
	S/T	0.88	0.82	0.67	0.50	0.91	0.85	0.69	0.52	0.93	0.87	0.71	0.53	0.96	0.90	0.73	0.55	1.00	0.94	0.76	0.57	1.00	0.94	0.77	0.57	1.00	0.94	0.76	0.57	1.00	0.94	0.77	0.57																
	ΔT	24	23	20	16	24	23	20	16	24	23	20	16	24	23	20	16	24	23	20	16	22	21	19	15	22	21	19	15	22	21	19	15																
	kW	1.27	1.30	1.34	1.38	1.37	1.40	1.44	1.49	1.45	1.48	1.53	1.58	1.53	1.56	1.61	1.66	1.59	1.62	1.67	1.73	1.64	1.68	1.73	1.79	1.64	1.68	1.73	1.79	1.64	1.68	1.73	1.79																
	Amps	4.8	4.9	5.1	5.3	5.2	5.3	5.5	5.7	5.7	5.8	6.0	6.2	6.0	6.2	6.4	6.6	6.4	6.6	6.8	7.0	6.8	7.0	7.2	7.5	6.8	7.0	7.2	7.5	6.8	7.0	7.2	7.5																
	HI/PR	138	149	157	164	155	167	177	184	177	190	201	209	201	217	229	239	226	244	257	268	250	269	284	296	250	269	284	296	250	269	284	296																
	LO/PR	63	67	74	78	67	71	78	83	70	74	81	86	73	78	85	90	77	81	89	95	79	84	92	98	79	84	92	98	79	84	92	98																
	MBh	16.4	16.7	17.9	19.1	16.0	16.3	17.4	18.6	15.6	15.9	17.0	18.2	15.2	15.6	16.6	17.8	14.5	14.8	15.8	16.9	13.4	13.7	14.6	15.6	13.4	13.7	14.6	15.6	13.4	13.7	14.6	15.6																
	S/T	0.84	0.79	0.64	0.48	0.88	0.82	0.67	0.50	0.90	0.84	0.69	0.51	0.93	0.87	0.71	0.53	0.96	0.90	0.73	0.55	0.97	0.91	0.74	0.55	0.97	0.91	0.74	0.55	0.97	0.91	0.74	0.55																
	ΔT	24	23	20	16	24	23	20	16	25	23	20	16	25	24	21	16	24	23	20	16	23	22	19	15	23	22	19	15	23	22	19	15																
	kW	1.25	1.27	1.31	1.35	1.34	1.36	1.41	1.45	1.42	1.45	1.49	1.54	1.49	1.52	1.57	1.62	1.55	1.58	1.63	1.69	1.60	1.64	1.69	1.74	1.60	1.64	1.69	1.74	1.60	1.64	1.69	1.74																
	Amps	4.7	4.8	5.0	5.1	5.1	5.2	5.4	5.6	5.5	5.6	5.8	6.0	5.9	6.0	6.2	6.4	6.2	6.4	6.6	6.8	6.6	6.8	7.0	7.2	6.6	6.8	7.0	7.2	6.6	6.8	7.0	7.2																
	HI/PR	134	145	153	159	151	162	171	179	171	184	195	203	195	210	222	231	220	236	250	260	243	261	276	288	243	261	276	288	243	261	276	288																
	LO/PR	61	65	71	76	65	69	75	80	67	72	78	83	71	75	82	88	74	79	86	92	77	82	89	95	77	82	89	95	77	82	89	95																

675	MBh	18.58	18.93	19.83	21.16	18.14	18.49	19.37	20.66	17.71	18.05	18.91	20.17	17.28	17.61	18.45	19.68	16.42	16.73	17.52	18.70	15.21	15.50	16.23	17.32
	S/T	0.96	0.93	0.84	0.68	1.00	0.96	0.87	0.70	1.00	0.99	0.89	0.72	1.00	1.00	0.92	0.75	1.00	1.00	0.95	0.77	1.00	1.00	0.96	0.78
	ΔT	24	24	23	20	25	24	23	20	24	24	23	20	24	24	23	20	22	23	23	20	21	21	21	18
	kW	1.29	1.32	1.36	1.40	1.39	1.42	1.46	1.51	1.48	1.51	1.55	1.60	1.55	1.58	1.63	1.69	1.61	1.65	1.70	1.76	1.67	1.71	1.76	1.82
	Amps	4.9	5.0	5.2	5.4	5.3	5.4	5.6	5.8	5.8	5.9	6.1	6.3	6.1	6.3	6.5	6.7	6.5	6.7	6.9	7.2	6.9	7.1	7.3	7.6
	HI PR	141	152	160	167	158	171	180	188	180	194	205	214	205	221	233	243	231	249	262	274	255	275	290	302
	LO PR	65	69	75	80	68	73	79	84	71	75	82	88	74	79	87	92	78	83	91	97	81	86	94	100
	MBh	18.0	18.4	19.3	20.5	17.6	18.0	18.8	20.1	17.2	17.5	18.4	19.6	16.8	17.1	17.9	19.1	15.9	16.2	17.0	18.2	14.8	15.0	15.8	16.8
600	S/T	0.92	0.89	0.80	0.65	0.95	0.92	0.83	0.67	0.98	0.94	0.85	0.69	1.00	0.97	0.88	0.71	1.00	1.00	0.91	0.74	1.00	1.00	0.92	0.74
	ΔT	25	25	24	20	26	25	24	21	26	25	24	21	26	25	24	21	24	25	24	21	23	23	22	19
	kW	1.28	1.31	1.35	1.39	1.38	1.41	1.45	1.50	1.46	1.49	1.54	1.59	1.54	1.57	1.62	1.67	1.60	1.64	1.69	1.74	1.66	1.69	1.75	1.80
	Amps	4.9	5.0	5.2	5.3	5.3	5.4	5.6	5.8	5.7	5.8	6.0	6.3	6.1	6.2	6.4	6.7	6.5	6.6	6.8	7.1	6.9	7.0	7.2	7.5
	HI PR	140	150	159	166	157	169	178	186	178	192	203	211	203	219	231	241	229	246	260	271	253	272	287	299
	LO PR	64	68	74	79	68	72	78	84	70	75	82	87	74	78	86	91	77	82	90	96	80	85	93	99
	MBh	16.6	17.0	17.8	19.0	16.3	16.6	17.4	18.5	15.9	16.2	16.9	18.1	15.5	15.8	16.5	17.6	14.7	15.0	15.7	16.8	13.6	13.9	14.5	15.5
	S/T	0.89	0.85	0.77	0.63	0.92	0.89	0.80	0.65	0.94	0.91	0.82	0.66	0.97	0.94	0.85	0.69	1.00	0.97	0.88	0.71	1.00	0.98	0.89	0.72
525	ΔT	26	25	24	21	26	26	24	21	26	26	24	21	26	26	24	21	26	26	24	21	24	24	23	20
	kW	1.26	1.28	1.32	1.36	1.35	1.38	1.42	1.46	1.43	1.46	1.50	1.55	1.50	1.53	1.58	1.63	1.56	1.60	1.65	1.70	1.61	1.65	1.70	1.76
	Amps	4.7	4.9	5.0	5.2	5.1	5.2	5.4	5.6	5.6	5.7	5.9	6.1	5.9	6.1	6.3	6.5	6.3	6.4	6.7	6.9	6.7	6.8	7.0	7.3
	HI PR	136	146	154	161	152	164	173	180	173	186	197	205	197	212	224	234	222	239	252	263	245	264	278	290
	LO PR	62	66	72	77	66	70	76	81	68	72	79	84	72	76	83	88	75	80	87	93	78	83	90	96

EXPANDED COOLING DATA — VSH130191A***

		Outdoor Ambient Temperature																								
		65°F				75°F				85°F				95°F				105°F				115°F				
IDB	Airflow	59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71	
70		MBh	17.6	18.3	20.0	-	17.2	17.9	19.6	-	16.8	17.4	19.1	-	16.4	17.0	18.6	-	15.6	16.2	17.7	-	14.4	15.0	16.4	-
		S/T	0.74	0.61	0.43	-	0.76	0.64	0.44	-	0.78	0.65	0.45	-	0.81	0.67	0.47	-	0.84	0.70	0.48	-	0.85	0.71	0.49	-
		ΔT	18	15	12	-	18	15	12	-	18	16	12	-	18	16	12	-	18	15	12	-	17	14	11	-
	675	kW	1.25	1.27	1.31	-	1.33	1.36	1.40	-	1.41	1.44	1.48	-	1.47	1.50	1.55	-	1.53	1.56	1.61	-	1.58	1.61	1.66	-
		Amps	4.0	4.1	4.2	-	4.3	4.4	4.5	-	4.6	4.7	4.9	-	4.9	5.0	5.2	-	5.2	5.3	5.4	-	5.4	5.6	5.7	-
		HI PR	136	146	155	-	153	164	173	-	174	187	197	-	198	213	225	-	222	239	253	-	246	264	279	-
		LO PR	61	65	71	-	65	69	75	-	67	71	78	-	70	75	82	-	74	79	86	-	76	81	89	-
	600	MBh	17.1	17.7	19.4	-	16.7	17.3	19.0	-	16.3	16.9	18.5	-	15.9	16.5	18.1	-	15.1	15.7	17.2	-	14.0	14.5	15.9	-
		S/T	0.70	0.59	0.41	-	0.73	0.61	0.42	-	0.75	0.62	0.43	-	0.77	0.64	0.45	-	0.80	0.67	0.46	-	0.81	0.67	0.47	-
		ΔT	18	16	12	-	19	16	12	-	19	16	12	-	19	16	12	-	19	16	12	-	17	15	11	-
		kW	1.24	1.26	1.30	-	1.32	1.35	1.39	-	1.40	1.43	1.47	-	1.46	1.49	1.54	-	1.52	1.55	1.60	-	1.57	1.60	1.65	-
	Amps	4.0	4.1	4.2	-	4.3	4.4	4.5	-	4.6	4.7	4.8	-	4.9	5.0	5.1	-	5.1	5.2	5.4	-	5.4	5.5	5.7	-	
	HI PR	135	145	153	-	151	163	172	-	172	185	195	-	196	211	222	-	220	237	250	-	243	262	277	-	
	LO PR	61	64	70	-	64	68	74	-	66	71	77	-	70	74	81	-	73	78	85	-	76	80	88	-	
	MBh	15.8	16.4	17.9	-	15.4	16.0	17.5	-	15.1	15.6	17.1	-	14.7	15.2	16.7	-	14.0	14.5	15.9	-	12.9	13.4	14.7	-	
525	S/T	0.68	0.57	0.39	-	0.70	0.59	0.41	-	0.72	0.60	0.42	-	0.74	0.62	0.43	-	0.77	0.64	0.45	-	0.78	0.65	0.45	-	
	ΔT	19	16	12	-	19	16	12	-	19	16	12	-	19	17	13	-	19	16	12	-	18	15	12	-	
	KW	1.22	1.24	1.27	-	1.30	1.32	1.36	-	1.37	1.39	1.43	-	1.43	1.46	1.50	-	1.48	1.51	1.56	-	1.53	1.56	1.61	-	
	AMPS	3.9	4.0	4.1	-	4.2	4.3	4.4	-	4.5	4.6	4.7	-	4.7	4.8	5.0	-	5.0	5.1	5.3	-	5.3	5.4	5.5	-	
	HI PR	131	141	148	-	147	158	167	-	167	179	189	-	190	204	216	-	214	230	243	-	236	254	268	-	
	LO PR	59	62	68	-	62	66	72	-	64	69	75	-	68	72	79	-	71	75	82	-	73	78	85	-	

		675												600												525											
	MBh	17.94	18.47	19.99	21.45	17.52	18.04	19.53	20.96	17.10	17.61	19.06	20.46	16.69	17.18	18.60	19.96	15.85	16.32	17.67	18.96	14.68	15.12	16.36	17.56	14.68	15.12	16.36	17.56	14.68	15.12	16.36	17.56				
675	S/T	0.84	0.75	0.57	0.36	0.87	0.78	0.59	0.38	0.89	0.80	0.60	0.39	0.92	0.82	0.62	0.40	0.95	0.85	0.65	0.41	0.96	0.86	0.65	0.42	0.96	0.86	0.65	0.41	0.96	0.86	0.65	0.42				
	ΔT	20	19	15	11	21	19	16	11	21	19	16	11	21	19	16	11	21	19	16	11	19	18	14	10	19	18	14	10	19	18	14	10				
	kW	1.26	1.28	1.32	1.36	1.34	1.37	1.41	1.45	1.42	1.45	1.49	1.53	1.49	1.52	1.56	1.61	1.54	1.57	1.62	1.67	1.59	1.62	1.67	1.72	1.59	1.62	1.67	1.72	1.59	1.62	1.67	1.72				
	Amps	4.1	4.1	4.3	4.4	4.3	4.4	4.6	4.7	4.7	4.8	4.9	5.1	4.9	5.0	5.2	5.4	5.2	5.3	5.5	5.7	5.5	5.6	5.8	6.0	5.5	5.6	5.8	6.0	5.5	5.6	5.8	6.0				
	HI PR	137	148	156	163	154	166	175	183	175	189	199	208	200	215	227	237	225	242	255	266	248	267	282	294	248	267	282	294	248	267	282	294				
600	LO PR	62	66	72	76	65	69	76	81	68	72	79	84	71	76	83	88	75	79	87	92	77	82	90	95	77	82	90	95	77	82	90	95				
	MBh	17.4	17.9	19.4	20.8	17.0	17.5	19.0	20.3	16.6	17.1	18.5	19.9	16.2	16.7	18.1	19.4	15.4	15.8	17.2	18.4	14.3	14.7	15.9	17.1	14.3	14.7	15.9	17.1	14.3	14.7	15.9	17.1				
	S/T	0.80	0.71	0.54	0.35	0.83	0.74	0.56	0.36	0.85	0.76	0.57	0.37	0.88	0.78	0.59	0.38	0.91	0.81	0.62	0.40	0.92	0.82	0.62	0.40	0.92	0.82	0.62	0.40	0.92	0.82	0.62	0.40				
	ΔT	21	20	16	11	22	20	16	11	22	20	16	11	22	20	16	11	21	20	16	11	20	18	15	10	20	18	15	10	20	18	15	10				
	kW	1.25	1.27	1.31	1.35	1.33	1.36	1.40	1.44	1.41	1.44	1.48	1.52	1.47	1.50	1.55	1.60	1.53	1.56	1.61	1.66	1.58	1.61	1.66	1.71	1.58	1.61	1.66	1.71	1.58	1.61	1.66	1.71				
75	Amps	4.0	4.1	4.2	4.4	4.3	4.4	4.5	4.7	4.6	4.7	4.9	5.0	4.9	5.0	5.2	5.3	5.2	5.3	5.4	5.6	5.5	5.6	5.7	5.9	5.5	5.6	5.7	5.9	5.5	5.6	5.7	5.9				
	HI PR	136	146	155	161	153	164	173	181	174	187	197	206	198	213	225	234	222	239	253	264	246	265	279	291	246	265	279	291	246	265	279	291				
	LO PR	61	65	71	76	65	69	75	80	67	71	78	83	71	75	82	87	74	79	86	91	76	81	89	95	76	81	89	95	76	81	89	95				
	MBh	16.1	16.5	17.9	19.2	15.7	16.2	17.5	18.8	15.3	15.8	17.1	18.3	15.0	15.40	16.7	17.9	14.2	14.6	15.8	17.0	13.2	13.5	14.7	15.7	13.2	13.5	14.7	15.7	13.2	13.5	14.7	15.7				
	S/T	0.77	0.69	0.52	0.34	0.80	0.71	0.54	0.35	0.82	0.73	0.55	0.36	0.84	0.76	0.57	0.37	0.88	0.78	0.59	0.38	0.88	0.79	0.60	0.38	0.88	0.79	0.60	0.38	0.88	0.79	0.60	0.38				
525	ΔT	22	20	16	11	22	20	17	11	22	20	17	11	22	20	17	12	22	20	16	11	20	19	15	11	20	19	15	11	20	19	15	11				
	kW	1.22	1.25	1.28	1.32	1.31	1.33	1.37	1.41	1.38	1.40	1.45	1.49	1.44	1.47	1.51	1.56	1.50	1.53	1.57	1.62	1.54	1.57	1.62	1.67	1.54	1.57	1.62	1.67	1.54	1.57	1.62	1.67				
	AMPS	3.9	4.0	4.1	4.3	4.2	4.3	4.4	4.5	4.5	4.6	4.7	4.9	4.8	4.9	5.0	5.2	5.0	5.2	5.3	5.5	5.3	5.4	5.6	5.8	5.3	5.4	5.6	5.8	5.3	5.4	5.6	5.8				
	HI PR	132	142	150	156	148	159	168	176	168	181	191	200	192	206	218	227	216	232	245	256	238	257	271	283	238	257	271	283	238	257	271	283				
	LO PR	59	63	69	73	63	67	73	77	65	69	76	81	68	73	79	85	72	76	83	89	74	79	86	92	74	79	86	92	74	79	86	92				

EXPANDED COOLING DATA — VSH130191A*** (CONT.)

		Outdoor Ambient Temperature																							
		65°F				75°F				85°F				95°F				105°F				115°F			
IDB	Airflow	59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71
80	675 MBh	18.26	18.65	19.93	21.31	17.83	18.22	19.47	20.81	17.41	17.79	19.00	20.31	16.98	17.35	18.54	19.82	16.13	16.49	17.61	18.83	14.94	15.27	16.32	17.44
	S/T	0.92	0.86	0.70	0.52	0.95	0.89	0.73	0.54	1.00	0.91	0.74	0.56	1.00	0.94	0.77	0.57	1.00	1.00	0.80	0.60	1.00	1.00	0.80	0.60
	ΔT	23	22	19	15	23	22	19	15	24	22	19	15	23	22	19	16	22	22	19	15	20	21	18	14
	kW	1.27	1.29	1.33	1.37	1.35	1.38	1.42	1.46	1.43	1.46	1.50	1.55	1.50	1.53	1.57	1.62	1.55	1.59	1.63	1.68	1.60	1.64	1.69	1.74
	Amps	4.1	4.2	4.3	4.4	4.4	4.5	4.6	4.7	4.7	4.8	4.9	5.1	5.0	5.1	5.2	5.4	5.3	5.4	5.5	5.7	5.5	5.7	5.8	6.0
	HI PR	139	149	158	165	156	168	177	185	177	191	201	210	202	217	229	239	227	244	258	269	251	270	285	297
	LO PR	62	66	72	77	66	70	77	81	68	73	80	85	72	77	84	89	75	80	88	93	78	83	91	96
	600 MBh	17.7	18.1	19.4	20.7	17.3	17.7	18.9	20.2	16.9	17.3	18.5	19.7	16.5	16.8	18.0	19.2	15.7	16.0	17.1	18.3	14.5	14.8	15.8	16.9
	S/T	0.88	0.82	0.67	0.50	0.91	0.85	0.69	0.52	0.93	0.87	0.71	0.53	0.96	0.90	0.73	0.55	1.00	0.93	0.76	0.57	1.00	0.94	0.77	0.57
	ΔT	24	23	20	16	24	23	20	16	24	23	20	16	24	23	20	16	24	23	20	16	22	21	19	15
525	kW	1.26	1.28	1.32	1.36	1.34	1.37	1.41	1.45	1.42	1.45	1.49	1.53	1.49	1.52	1.56	1.61	1.54	1.57	1.62	1.67	1.59	1.62	1.67	1.72
	Amps	4.1	4.1	4.3	4.4	4.3	4.4	4.6	4.7	4.7	4.8	4.9	5.1	4.9	5.0	5.2	5.4	5.2	5.3	5.5	5.7	5.5	5.6	5.8	6.0
	HI PR	137	148	156	163	154	166	175	183	175	189	199	208	200	215	227	237	225	242	255	266	248	267	282	294
	LO PR	62	66	72	76	65	69	76	81	68	72	79	84	71	76	83	88	75	79	87	92	77	82	90	95
	600 MBh	16.4	16.7	17.9	19.1	16.0	16.3	17.4	18.6	15.6	15.9	17.0	18.2	15.2	15.6	16.6	17.8	14.5	14.8	15.8	16.9	13.4	13.7	14.6	15.6
	S/T	0.84	0.79	0.64	0.48	0.87	0.82	0.67	0.50	0.90	0.84	0.68	0.51	0.93	0.87	0.71	0.53	0.96	0.90	0.73	0.55	0.97	0.91	0.74	0.55
	ΔT	24	23	20	16	24	23	20	16	25	23	20	16	25	24	21	16	24	23	20	16	23	22	19	15
	kW	1.23	1.25	1.29	1.33	1.31	1.34	1.38	1.42	1.39	1.41	1.46	1.50	1.45	1.48	1.52	1.57	1.51	1.54	1.58	1.63	1.55	1.59	1.63	1.68
	Amps	4.0	4.0	4.2	4.3	4.2	4.3	4.4	4.6	4.5	4.6	4.8	4.9	4.8	4.9	5.1	5.2	5.1	5.2	5.4	5.5	5.4	5.5	5.6	5.8
	HI PR	133	143	151	158	150	161	170	177	170	183	193	202	194	209	220	230	218	235	248	258	241	259	274	285
	LO PR	60	64	70	74	63	67	73	78	66	70	76	81	69	73	80	85	72	77	84	90	75	80	87	93

85	675 MBh	18.58	18.93	19.83	21.16	18.14	18.49	19.37	20.66	17.71	18.05	18.91	20.17	17.28	17.61	18.45	19.68	16.42	16.73	17.52	18.70	15.21	15.50	16.23	17.32
	S/T	0.96	0.93	0.84	0.68	1.00	0.96	0.87	0.70	1.00	0.99	0.89	0.72	1.00	1.00	0.92	0.75	1.00	1.00	0.95	0.77	1.00	1.00	0.96	0.78
	ΔT	24	24	23	20	25	24	23	20	24	24	23	20	24	24	23	20	22	23	23	20	21	21	21	18
	kW	1.28	1.30	1.34	1.38	1.36	1.39	1.43	1.47	1.44	1.47	1.51	1.56	1.51	1.54	1.58	1.63	1.57	1.60	1.65	1.70	1.62	1.65	1.70	1.75
	Amps	4.1	4.2	4.3	4.5	4.4	4.5	4.6	4.8	4.7	4.8	5.0	5.1	5.0	5.1	5.3	5.5	5.3	5.4	5.6	5.8	5.6	5.7	5.9	6.1
	HI PR	140	151	159	166	157	169	179	186	179	193	203	212	204	219	232	242	229	247	260	272	253	273	288	300
	LO PR	63	67	73	78	67	71	77	82	69	74	80	86	73	77	84	90	76	81	88	94	79	84	91	97
	600 MBh	18.0	18.4	19.3	20.5	17.6	18.0	18.8	20.1	17.2	17.5	18.4	19.6	16.8	17.1	17.9	19.1	15.9	16.2	17.0	18.2	14.8	15.0	15.8	16.8
	S/T	0.92	0.89	0.80	0.65	0.95	0.92	0.83	0.67	0.98	0.94	0.85	0.69	1.00	0.97	0.88	0.71	1.00	1.00	0.91	0.74	1.00	1.00	0.92	0.74
	ΔT	25	25	24	20	26	25	24	21	26	25	24	21	26	25	24	21	24	25	24	21	23	23	22	19
525	kW	1.27	1.29	1.33	1.37	1.35	1.38	1.42	1.46	1.43	1.46	1.50	1.55	1.50	1.53	1.57	1.62	1.55	1.59	1.63	1.68	1.60	1.64	1.69	1.74
	Amps	4.1	4.2	4.3	4.4	4.4	4.5	4.6	4.7	4.7	4.8	4.9	5.1	5.0	5.1	5.2	5.4	5.3	5.4	5.5	5.7	5.5	5.7	5.8	6.0
	HI PR	139	149	158	165	156	168	177	185	177	191	201	210	202	217	229	239	227	244	258	269	251	270	285	297
	LO PR	62	66	72	77	66	70	77	81	68	73	80	85	72	77	84	89	75	80	88	93	78	83	91	96
	600 MBh	16.6	17.0	17.8	19.0	16.3	16.6	17.4	18.5	15.9	16.2	16.9	18.1	15.5	15.8	16.5	17.6	14.7	15.0	15.7	16.8	13.6	13.9	14.5	15.5
	S/T	0.88	0.85	0.77	0.63	0.92	0.88	0.80	0.65	0.94	0.91	0.82	0.66	0.97	0.94	0.85	0.69	1.00	0.97	0.88	0.71	1.00	0.98	0.88	0.72
	ΔT	26	25	24	21	26	26	24	21	26	26	24	21	26	26	24	21	26	26	24	21	24	24	23	20
	kW	1.24	1.26	1.30	1.34	1.32	1.35	1.39	1.43	1.40	1.43	1.47	1.51	1.46	1.49	1.54	1.58	1.52	1.55	1.60	1.64	1.57	1.60	1.65	1.70
	Amps	4.0	4.1	4.2	4.3	4.3	4.4	4.5	4.6	4.6	4.7	4.8	5.0	4.9	5.0	5.1	5.3	5.1	5.2	5.4	5.6	5.4	5.5	5.7	5.9
	HI PR	135	145	153	160	151	163	172	179	172	185	195	204	196	211	222	232	220	237	250	261	243	262	276	288
	LO PR	60	64	70	75	64	68	74	79	66	71	77	82	70	74	81	86	73	78	85	90	76	80	88	94

IDB: Entering Indoor Dry Bulb Temperature kW=Total system power Shaded area reflects ARI conditions Amps = outdoor unit amps (comp. +fan)
 High and low pressures are measured at the liquid and suction service valves. Design Subcooling 9 ±3 °F @ the liquid service valve, ARI 95 test conditions

EXPANDED COOLING DATA — VSH130241A***

		Outdoor Ambient Temperature																																			
		65°F						75°F						85°F						95°F						105°F						115°F					
IDB	Airflow	59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71				
70	923	MBh	22.5	23.4	25.6	-	22.0	22.8	25.0	-	21.5	22.3	24.4	-	21.0	21.7	23.8	-	19.9	20.6	22.6	-	18.4	19.1	21.0	-	18.4	19.1	21.0	-	18.4	19.1	21.0	-			
		S/T	0.74	0.62	0.43	-	0.77	0.64	0.45	-	0.79	0.66	0.46	-	0.81	0.68	0.47	-	0.85	0.71	0.49	-	0.85	0.71	0.49	-	0.85	0.71	0.49	-	0.85	0.71	0.49	-			
		ΔT	17	14	11	-	17	15	11	-	17	15	11	-	17	15	11	-	17	15	11	-	16	14	10	-	16	14	10	-	16	14	10	-			
		kW	1.64	1.67	1.72	-	1.76	1.79	1.85	-	1.86	1.90	1.96	-	1.96	2.00	2.06	-	2.04	2.08	2.15	-	2.10	2.15	2.22	-	2.10	2.15	2.22	-	2.10	2.15	2.22	-			
		Amps	6.1	6.3	6.5	-	6.6	6.8	7.0	-	7.2	7.4	7.6	-	7.7	7.9	8.1	-	8.2	8.4	8.6	-	8.6	8.8	9.1	-	8.6	8.8	9.1	-	8.6	8.8	9.1	-			
	HI PR	137	148	156	-	154	166	175	-	175	189	199	-	200	215	227	-	224	242	255	-	248	267	282	-	248	267	282	-	248	267	282	-				
	LO PR	61	65	71	-	64	69	75	-	67	71	78	-	70	75	82	-	74	78	86	-	76	81	89	-	76	81	89	-	76	81	89	-				
	MBh	21.9	22.7	24.8	-	21.4	22.2	24.3	-	20.9	21.6	23.7	-	20.4	21.1	23.1	-	19.3	20.0	22.0	-	17.9	18.6	20.3	-	17.9	18.6	20.3	-	17.9	18.6	20.3	-				
	S/T	0.71	0.59	0.41	-	0.73	0.61	0.42	-	0.75	0.63	0.44	-	0.78	0.65	0.45	-	0.81	0.67	0.47	-	0.81	0.68	0.47	-	0.81	0.68	0.47	-	0.81	0.68	0.47	-				
	ΔT	17	15	11	-	18	15	12	-	18	15	12	-	18	15	12	-	17	15	11	-	16	14	11	-	16	14	11	-	16	14	11	-				
718	820	kW	1.62	1.66	1.71	-	1.74	1.78	1.83	-	1.85	1.89	1.95	-	1.94	1.98	2.04	-	2.02	2.06	2.13	-	2.09	2.13	2.20	-	2.09	2.13	2.20	-	2.09	2.13	2.20	-			
		Amps	6.1	6.2	6.4	-	6.6	6.7	6.9	-	7.1	7.3	7.5	-	7.6	7.8	8.0	-	8.1	8.3	8.6	-	8.6	8.8	9.1	-	8.6	8.8	9.1	-	8.6	8.8	9.1	-			
		HI PR	136	146	154	-	153	164	173	-	173	187	197	-	198	213	224	-	222	239	253	-	246	264	279	-	246	264	279	-	246	264	279	-			
		LO PR	60	64	70	-	64	68	74	-	66	71	77	-	70	74	81	-	73	78	85	-	75	80	88	-	75	80	88	-	75	80	88	-			
		MBh	20.2	20.9	22.9	-	19.7	20.4	22.4	-	19.3	20.0	21.9	-	18.8	19.5	21.3	-	17.8	18.5	20.3	-	16.5	17.1	18.8	-	16.5	17.1	18.8	-	16.5	17.1	18.8	-			
	S/T	0.68	0.57	0.40	-	0.71	0.59	0.41	-	0.73	0.61	0.42	-	0.75	0.63	0.43	-	0.78	0.65	0.45	-	0.78	0.65	0.45	-	0.78	0.65	0.45	-	0.78	0.65	0.45	-				
	ΔT	18	15	12	-	18	15	12	-	18	15	12	-	18	16	12	-	18	15	12	-	17	14	11	-	17	14	11	-	17	14	11	-				
	kW	1.59	1.62	1.67	-	1.70	1.74	1.79	-	1.80	1.84	1.90	-	1.89	1.93	2.00	-	1.97	2.01	2.08	-	2.04	2.08	2.15	-	2.04	2.08	2.15	-	2.04	2.08	2.15	-				
	Amps	5.9	6.1	6.2	-	6.4	6.5	6.7	-	6.9	7.1	7.3	-	7.4	7.6	7.8	-	7.9	8.1	8.3	-	8.3	8.5	8.8	-	8.3	8.5	8.8	-	8.3	8.5	8.8	-				
	HI PR	132	142	150	-	148	159	168	-	168	181	191	-	192	206	218	-	216	232	245	-	238	256	271	-	238	256	271	-	238	256	271	-				
LO PR	59	62	68	-	62	66	72	-	64	68	75	-	68	72	78	-	71	75	82	-	73	78	85	-	73	78	85	-	73	78	85	-					

75	923	MBh	22.92	23.60	25.54	27.41	22.39	23.05	24.95	26.78	21.85	22.50	24.36	26.14	21.32	21.95	23.76	25.50	20.25	20.85	22.57	24.23	18.76	19.32	20.91	22.44
		S/T	0.84	0.75	0.57	0.37	0.87	0.78	0.59	0.38	0.90	0.80	0.61	0.39	0.93	0.83	0.63	0.40	0.96	0.86	0.65	0.42	0.97	0.87	0.66	0.42
		ΔT	19	18	15	10	20	18	15	10	20	18	15	10	20	18	15	10	19	18	15	10	18	17	14	9
		kW	1.65	1.68	1.73	1.79	1.77	1.81	1.86	1.92	1.88	1.92	1.98	2.04	1.97	2.01	2.08	2.15	2.05	2.10	2.16	2.24	2.12	2.17	2.24	2.31
		Amps	6.2	6.3	6.5	6.8	6.7	6.8	7.1	7.3	7.2	7.4	7.7	7.9	7.7	7.9	8.2	8.5	8.2	8.4	8.7	9.0	8.7	8.9	9.2	9.6
	HI PR	139	149	158	164	156	167	177	184	177	190	201	210	202	217	229	239	227	244	258	269	251	270	285	297	
	LO PR	62	66	72	76	65	69	76	81	68	72	79	84	71	76	83	88	74	79	86	92	77	82	89	95	
	820	MBh	22.3	22.9	24.8	26.6	21.7	22.4	24.2	26.0	21.2	21.8	23.6	25.4	20.7	21.3	23.1	24.8	19.7	20.2	21.9	23.5	18.2	18.8	20.3	21.8
		S/T	0.80	0.72	0.54	0.35	0.83	0.75	0.56	0.36	0.86	0.77	0.58	0.37	0.88	0.79	0.60	0.38	0.92	0.82	0.62	0.40	0.92	0.83	0.63	0.40
		ΔT	20	18	15	10	20	19	15	11	20	19	15	11	20	19	15	11	20	19	15	11	19	17	14	10
kW		1.84	1.67	1.72	1.77	1.76	1.79	1.85	1.91	1.86	1.90	1.96	2.02	1.96	2.00	2.06	2.13	2.04	2.08	2.15	2.22	2.10	2.15	2.22	2.29	
Amps		6.1	6.3	6.5	6.7	6.6	6.8	7.0	7.3	7.2	7.4	7.6	7.9	7.7	7.9	8.1	8.4	8.2	8.4	8.6	9.0	8.6	8.8	9.1	9.5	
718	HI PR	137	148	156	163	154	166	175	183	175	189	199	208	200	215	227	237	225	242	255	266	248	267	282	294	
	LO PR	61	65	71	75	64	69	75	80	67	71	78	83	70	75	82	87	74	78	86	91	76	81	89	94	
	MBh	20.5	21.1	22.9	24.6	20.1	20.7	22.4	24.0	19.6	20.2	21.8	23.4	19.1	19.67	21.3	22.9	18.2	18.7	20.2	21.7	16.8	17.3	18.7	20.1	
	S/T	0.78	0.69	0.53	0.34	0.80	0.72	0.54	0.35	0.82	0.74	0.56	0.36	0.85	0.76	0.58	0.37	0.88	0.79	0.60	0.38	0.89	0.80	0.60	0.39	
	ΔT	20	19	15	11	21	19	16	11	21	19	16	11	21	19	16	11	21	19	16	11	19	18	14	10	

EXPANDED COOLING DATA — VSH130241A*** (CONT.)

		Outdoor Ambient Temperature																																			
		65°F						75°F						85°F						95°F						105°F						115°F					
IDB	Airflow	59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71				
923	MBh	23.33	23.84	25.47	27.22	22.79	23.28	24.87	26.59	22.24	22.73	24.28	25.96	21.70	22.17	23.69	25.32	20.62	21.07	22.51	24.06	19.10	19.51	20.85	22.29	19.10	19.51	20.85	22.29	19.10	19.51	20.85	22.29				
	S/T	0.93	0.87	0.71	0.53	0.96	0.90	0.73	0.55	1.00	0.92	0.75	0.56	1.00	0.95	0.78	0.58	1.00	1.00	0.80	0.60	1.00	1.00	0.81	0.61	1.00	1.00	0.81	0.61	1.00	1.00	0.81	0.61				
	ΔT	22	21	18	14	22	21	18	15	22	21	18	15	22	21	18	15	22	21	18	14	22	21	18	14	22	21	18	14	22	21	18	14				
	kW	1.66	1.69	1.75	1.80	1.78	1.82	1.88	1.94	1.89	1.93	1.99	2.06	1.99	2.03	2.10	2.16	2.07	2.11	2.18	2.25	2.14	2.19	2.26	2.33	2.14	2.19	2.26	2.33	2.14	2.19	2.26	2.33				
	Amps	6.2	6.4	6.6	6.8	6.7	6.9	7.1	7.4	7.3	7.5	7.7	8.0	7.8	8.0	8.3	8.6	8.3	8.5	8.8	9.1	8.8	9.0	9.3	9.7	8.8	9.0	9.3	9.7	8.8	9.0	9.3	9.7				
	HI PR	140	151	159	166	157	169	179	186	179	192	203	212	204	219	231	241	229	246	260	271	253	272	288	300	253	272	288	300	253	272	288	300				
	LO PR	62	66	72	77	66	70	76	81	68	73	79	85	72	76	83	89	75	80	87	93	78	83	90	96	78	83	90	96	78	83	90	96				
820	MBh	22.6	23.1	24.7	26.4	22.1	22.6	24.2	25.8	21.6	22.1	23.6	25.2	21.1	21.5	23.0	24.6	20.0	20.5	21.9	23.4	18.5	18.9	20.2	21.6	18.5	18.9	20.2	21.6	18.5	18.9	20.2	21.6				
	S/T	0.88	0.83	0.67	0.50	0.91	0.86	0.70	0.52	0.94	0.88	0.72	0.54	0.97	0.91	0.74	0.55	1.00	0.94	0.77	0.57	1.00	0.95	0.77	0.58	1.00	0.95	0.77	0.58	1.00	0.95	0.77	0.58				
	ΔT	22	21	19	15	23	22	19	15	23	22	19	15	23	22	19	15	22	22	19	15	21	20	18	14	21	20	18	14	21	20	18	14				
	kW	1.65	1.68	1.73	1.79	1.77	1.81	1.86	1.92	1.88	1.92	1.98	2.04	1.97	2.01	2.08	2.15	2.05	2.10	2.16	2.24	2.12	2.17	2.24	2.31	2.12	2.17	2.24	2.31	2.12	2.17	2.24	2.31				
	Amps	6.2	6.3	6.5	6.8	6.7	6.8	7.1	7.3	7.2	7.4	7.7	7.9	7.7	7.9	8.2	8.5	8.2	8.4	8.7	9.0	8.7	8.9	9.2	9.6	8.7	8.9	9.2	9.6	8.7	8.9	9.2	9.6				
	HI PR	139	149	158	164	156	167	177	184	177	190	201	210	202	217	229	239	227	244	258	269	251	270	285	297	251	270	285	297	251	270	285	297				
	LO PR	62	66	72	76	65	69	76	81	68	72	79	84	71	76	83	88	74	79	86	92	77	82	89	95	77	82	89	95	77	82	89	95				
718	MBh	20.9	21.4	22.8	24.4	20.4	20.9	22.3	23.8	19.9	20.4	21.8	23.3	19.4	19.9	21.2	22.7	18.5	18.9	20.2	21.6	17.1	17.5	18.7	20.0	17.1	17.5	18.7	20.0	17.1	17.5	18.7	20.0				
	S/T	0.85	0.80	0.65	0.49	0.88	0.83	0.67	0.50	0.90	0.85	0.69	0.52	0.93	0.88	0.71	0.53	0.97	0.91	0.74	0.55	0.98	0.92	0.75	0.56	0.98	0.92	0.75	0.56	0.98	0.92	0.75	0.56				
	ΔT	23	22	19	15	23	22	19	15	23	22	19	15	23	22	19	15	23	22	19	15	21	21	18	14	21	21	18	14	21	21	18	14				
	kW	1.61	1.64	1.69	1.74	1.73	1.76	1.82	1.88	1.83	1.87	1.93	1.99	1.92	1.97	2.03	2.09	2.00	2.05	2.11	2.18	2.07	2.12	2.18	2.25	2.07	2.12	2.18	2.25	2.07	2.12	2.18	2.25				
	Amps	6.0	6.2	6.4	6.6	6.5	6.7	6.9	7.1	7.0	7.2	7.5	7.7	7.5	7.7	8.0	8.3	8.0	8.2	8.5	8.8	8.5	8.7	9.0	9.3	8.5	8.7	9.0	9.3	8.5	8.7	9.0	9.3				
	HI PR	135	145	153	159	151	162	172	179	172	185	195	203	196	210	222	232	220	237	250	261	243	262	276	288	243	262	276	288	243	262	276	288				
	LO PR	60	64	69	74	63	67	73	78	66	70	76	81	69	73	80	85	72	77	84	89	75	79	87	92	75	79	87	92	75	79	87	92				

923	MBh	23.74	24.19	25.34	27.03	23.18	23.63	24.75	26.40	22.63	23.07	24.16	25.78	22.08	22.51	23.57	25.15	20.98	21.38	22.39	23.89	19.43	19.81	20.74	22.13
	S/T	0.97	0.94	0.84	0.69	1.00	0.97	0.88	0.71	1.00	0.99	0.90	0.73	1.00	1.00	0.93	0.75	1.00	1.00	0.96	0.78	1.00	1.00	0.97	0.79
	ΔT	23	23	21	18	23	23	22	19	23	23	22	19	22	22	22	19	21	21	21	19	19	20	20	17
	kW	1.67	1.71	1.76	1.81	1.80	1.84	1.89	1.95	1.91	1.95	2.01	2.07	2.00	2.05	2.11	2.18	2.09	2.13	2.20	2.27	2.16	2.20	2.28	2.35
	Amps	6.3	6.4	6.6	6.9	6.8	7.0	7.2	7.5	7.4	7.6	7.8	8.1	7.9	8.1	8.3	8.7	8.4	8.6	8.9	9.2	8.9	9.1	9.4	9.8
	HI PR	141	152	161	168	159	171	180	188	181	194	205	214	206	221	234	244	231	249	263	274	256	275	290	303
	LO PR	63	67	73	78	66	71	77	82	69	73	80	85	72	77	84	90	76	81	88	94	79	84	91	97
	820	MBh	23.0	23.5	24.6	26.2	22.5	22.9	24.0	25.6	22.0	22.4	23.5	25.0	21.4	21.9	22.9	24.4	20.4	20.8	21.7	23.2	18.9	19.2	20.1
S/T		0.93	0.89	0.81	0.65	0.96	0.93	0.84	0.68	0.98	0.95	0.86	0.69	1.00	0.98	0.88	0.72	1.00	1.00	0.92	0.74	1.00	1.00	0.93	0.75
ΔT		24	24	22	19	24	24	22	19	24	24	23	19	24	24	23	20	23	23	22	19	21	22	21	18
kW		1.66	1.69	1.75	1.80	1.78	1.82	1.88	1.94	1.89	1.93	1.99	2.06	1.99	2.03	2.10	2.16	2.07	2.11	2.18	2.25	2.14	2.19	2.26	2.33
Amps		6.2	6.4	6.6	6.8	6.7	6.9	7.1	7.4	7.3	7.5	7.7	8.0	7.8	8.0	8.3	8.6	8.3	8.5	8.8	9.1	8.8	9.0	9.3	9.7
HI PR		140	151	159	166	157	169	179	186	179	192	203	212	204	219	231	241	229	246	260	271	253	272	288	300
LO PR		62	66	72	77	66	70	76	81	68	73	79	85	72	76	83	89	75	80	87	93	78	83	90	96
718		MBh	21.3	21.7	22.7	24.2	20.8	21.2	22.2	23.7	20.3	20.7	21.7	23.1	19.8	20.2	21.1	22.5	18.8	19.2	20.1	21.4	17.4	17.7	18.6
	S/T	0.89	0.86	0.78	0.63	0.92	0.89	0.81	0.65	0.95	0.91	0.83	0.67	0.98	0.94	0.85	0.69	1.00	0.98	0.88	0.72	1.00	0.99	0.89	0.72
	ΔT	24	24	23	20	25	24	23	20	25	24	23	20	25	24	23	20	24	24	23	20	22	22	21	18
	kW	1.62	1.66	1.71	1.76	1.74	1.78	1.83	1.89	1.85	1.89	1.95	2.01	1.94	1.98	2.04	2.11	2.02	2.06	2.13	2.20	2.09	2.13	2.20	2.27
	Amps	6.1	6.2	6.4	6.6	6.6	6.7	6.9	7.2	7.1	7.3	7.5	7.8	7.6	7.8	8.0	8.3	8.1	8.3	8.6	8.9	8.6	8.8	9.1	9.4
	HI PR	136	146	154	161	152	164	173	181	173	187	197	206	197	213	224	234	222	239	252	263	245	264	279	291
	LO PR	60	64	70	75	64	68	74	79	66	71	77	82	70	74	81	86	73	78	85	90	75	80	88	93

EXPANDED COOLING DATA — VSH130251A***

		Outdoor Ambient Temperature																																			
		65°F						75°F						85°F						95°F						105°F						115°F					
IDB	Airflow	59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71								
70	923	MBh	23.5	24.4	26.7	-	23.0	23.8	26.1	-	22.4	23.2	25.5	-	21.9	22.7	24.8	-	20.8	21.5	23.6	-	19.3	20.0	21.9	-	19.3	20.0	21.9	-							
		S/T	0.74	0.62	0.43	-	0.77	0.64	0.44	-	0.79	0.66	0.45	-	0.81	0.68	0.47	-	0.84	0.70	0.49	-	0.85	0.71	0.49	-	0.85	0.71	0.49	-							
		ΔT	17	15	11	-	18	15	12	-	18	15	12	-	18	15	12	-	17	15	11	-	16	14	11	-	16	14	11	-							
		kW	1.68	1.71	1.76	-	1.79	1.83	1.88	-	1.90	1.93	1.99	-	1.99	2.03	2.09	-	2.06	2.11	2.17	-	2.13	2.18	2.24	-	2.13	2.18	2.24	-							
	Amps	6.7	6.8	7.0	-	7.2	7.3	7.5	-	7.7	7.9	8.1	-	8.2	8.4	8.6	-	8.7	8.9	9.1	-	9.1	9.3	9.6	-	9.1	9.3	9.6	-								
	HI PR	139	150	158	-	156	168	177	-	177	191	202	-	202	217	230	-	227	245	258	-	251	270	285	-	251	270	285	-								
	LO PR	59	63	69	-	63	67	73	-	65	69	76	-	68	73	80	-	72	76	83	-	74	79	86	-	74	79	86	-								
	MBh	22.8	23.7	25.9	-	22.3	23.1	25.3	-	21.8	22.6	24.7	-	21.2	22.0	24.1	-	20.2	20.9	22.9	-	18.7	19.4	21.2	-	18.7	19.4	21.2	-								
	S/T	0.71	0.59	0.41	-	0.73	0.61	0.42	-	0.75	0.63	0.43	-	0.77	0.65	0.45	-	0.80	0.67	0.46	-	0.81	0.68	0.47	-	0.81	0.68	0.47	-								
	ΔT	18	16	12	-	18	16	12	-	18	16	12	-	18	16	12	-	18	16	12	-	17	15	11	-	17	15	11	-								
	kW	1.66	1.70	1.74	-	1.78	1.81	1.87	-	1.88	1.92	1.98	-	1.97	2.01	2.07	-	2.05	2.09	2.15	-	2.11	2.16	2.23	-	2.11	2.16	2.23	-								
820	Amps	6.6	6.8	7.0	-	7.1	7.3	7.5	-	7.6	7.8	8.0	-	8.1	8.3	8.5	-	8.6	8.8	9.0	-	9.0	9.3	9.5	-	9.0	9.3	9.5	-								
	HI PR	138	148	156	-	154	166	175	-	176	189	200	-	200	215	227	-	225	242	256	-	249	267	282	-	249	267	282	-								
	LO PR	59	63	68	-	62	66	72	-	65	69	75	-	68	72	79	-	71	76	83	-	73	78	85	-	73	78	85	-								
	MBh	21.1	21.8	23.9	-	20.6	21.3	23.4	-	20.1	20.8	22.8	-	19.6	20.3	22.3	-	18.6	19.3	21.1	-	17.3	17.9	19.6	-	17.3	17.9	19.6	-								
718	S/T	0.68	0.57	0.39	-	0.70	0.59	0.41	-	0.72	0.60	0.42	-	0.75	0.62	0.43	-	0.77	0.65	0.45	-	0.78	0.65	0.45	-	0.78	0.65	0.45	-								
	ΔT	18	16	12	-	19	16	12	-	19	16	12	-	19	16	12	-	18	16	12	-	17	15	11	-	17	15	11	-								
	kW	1.63	1.66	1.71	-	1.74	1.77	1.83	-	1.84	1.88	1.93	-	1.93	1.97	2.02	-	2.00	2.04	2.10	-	2.07	2.11	2.17	-	2.07	2.11	2.17	-								
	Amps	6.5	6.6	6.8	-	6.9	7.1	7.3	-	7.5	7.6	7.8	-	7.9	8.1	8.3	-	8.4	8.6	8.8	-	8.8	9.0	9.3	-	8.8	9.0	9.3	-								
70	HI PR	133	144	152	-	150	161	170	-	170	183	194	-	194	209	220	-	218	235	248	-	241	259	274	-	241	259	274	-								
	LO PR	57	61	66	-	60	64	70	-	63	67	73	-	66	70	76	-	69	73	80	-	71	76	83	-	71	76	83	-								

923	MBh	23.92	24.62	26.65	28.61	23.36	24.05	26.03	27.94	22.80	23.48	25.41	27.28	22.25	22.91	24.79	26.61	21.14	21.76	23.55	25.28	19.58	20.16	21.82	23.42
	S/T	0.84	0.75	0.57	0.37	0.87	0.78	0.59	0.38	0.89	0.80	0.60	0.39	0.92	0.82	0.62	0.40	0.96	0.86	0.65	0.42	0.97	0.86	0.65	0.42
	ΔT	20	18	15	10	20	19	15	11	20	19	15	11	20	19	15	11	20	19	15	11	19	17	14	10
	kW	1.69	1.72	1.77	1.82	1.81	1.84	1.90	1.95	1.91	1.95	2.01	2.07	2.00	2.04	2.11	2.17	2.08	2.12	2.19	2.26	2.15	2.19	2.26	2.33
	Amps	6.7	6.9	7.1	7.3	7.2	7.4	7.6	7.8	7.8	7.9	8.2	8.5	8.3	8.4	8.7	9.0	8.7	8.9	9.2	9.5	9.2	9.4	9.7	10.0
	HI PR	140	151	160	166	158	170	179	187	179	193	204	212	204	220	232	242	230	247	261	272	254	273	288	301
	LO PR	60	64	70	74	63	67	74	78	66	70	76	81	69	74	80	86	72	77	84	90	75	80	87	93
	MBh	23.2	23.9	25.9	27.8	22.7	23.4	25.3	27.1	22.1	22.8	24.7	26.5	21.6	22.2	24.1	25.8	20.5	21.1	22.9	24.5	19.0	19.6	21.2	22.7
	S/T	0.80	0.72	0.54	0.35	0.83	0.74	0.56	0.36	0.85	0.76	0.58	0.37	0.88	0.79	0.60	0.38	0.91	0.82	0.62	0.40	0.92	0.82	0.62	0.40
	ΔT	21	19	16	11	21	19	16	11	21	19	16	11	21	20	16	11	21	19	16	11	20	18	15	10
75	kW	1.68	1.71	1.76	1.81	1.79	1.83	1.88	1.94	1.90	1.93	1.99	2.05	1.99	2.03	2.09	2.15	2.06	2.11	2.17	2.24	2.13	2.18	2.24	2.31
	Amps	6.7	6.8	7.0	7.3	7.2	7.3	7.5	7.8	7.7	7.9	8.1	8.4	8.2	8.4	8.6	8.9	8.7	8.9	9.1	9.4	9.1	9.3	9.6	10.0
	HI PR	139	150	158	165	156	168	177	185	177	191	202	210	202	217	230	239	227	245	258	269	251	270	285	298
	LO PR	59	63	69	73	63	67	73	78	65	69	76	81	68	73	80	85	72	76	83	89	74	79	86	92
	MBh	21.4	22.1	23.9	25.6	20.9	21.6	23.3	25.0	20.4	21.0	22.8	24.4	19.9	20.53	22.2	23.8	18.9	19.5	21.1	22.7	17.5	18.1	19.6	21.0
	S/T	0.77	0.69	0.52	0.34	0.80	0.72	0.54	0.35	0.82	0.73	0.56	0.36	0.85	0.76	0.57	0.37	0.88	0.79	0.60	0.38	0.89	0.79	0.60	0.39
	ΔT	21	20	16	11	21	20	16	11	22	20	16	11	22	20	16	11	21	20	16	11	20	18	15	10
	kW	1.64	1.67	1.72	1.77	1.75	1.79	1.84	1.89	1.85	1.89	1.95	2.01	1.94	1.98	2.04	2.10	2.02	2.06	2.12	2.19	2.08	2.12	2.19	2.26
	Amps	6.5	6.7	6.9	7.1	7.0	7.1	7.3	7.6	7.5	7.7	7.9	8.2	8.0	8.2	8.4	8.7	8.4	8.6	8.9	9.2	8.9	9.1	9.4	9.7
	HI PR	135	145	153	160	151	163	172	179	172	185	196	204	196	211	223	232	220	237	251	261	244	262	277	289
	LO PR	58	61	67	71	61	65	71	75	63	67	73	78	66	71	77	82	70	74	81	86	72	77	84	89

IDB: Entering Indoor Dry Bulb Temperature
 High and low pressures are measured at the liquid and suction service valves.

Shaded area reflects ACCA (TVA) conditions
 Design Subcooling 9 ±3 °F @ the liquid service valve, ARI 95 test conditions

Amps = outdoor unit amps (comp.+fan)

EXPANDED COOLING DATA — VSH130251A*** (CONT.)

		Outdoor Ambient Temperature																															
		65°F				75°F				85°F				95°F				105°F				115°F											
IDB	Airflow	59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71
923	MBh	24.34	24.87	26.57	28.41	23.78	24.29	25.96	27.75	23.21	23.72	25.34	27.09	22.64	23.14	24.72	26.43	21.51	21.98	23.48	25.10	19.93	20.36	21.75	23.25	19.93	20.36	21.75	23.25	19.93	20.36	21.75	23.25
	S/T	0.92	0.86	0.70	0.53	0.96	0.90	0.73	0.55	1.00	0.92	0.75	0.56	1.00	0.95	0.77	0.58	1.00	1.00	0.80	0.60	1.00	1.00	0.81	0.60	1.00	1.00	0.80	0.60	1.00	1.00	0.81	0.60
	ΔT	22	21	19	15	23	22	19	15	23	22	19	15	23	22	19	15	21	22	19	15	20	20	18	14	20	20	18	14	20	20	18	14
	kW	1.70	1.73	1.78	1.84	1.82	1.86	1.91	1.97	1.92	1.96	2.02	2.08	2.02	2.06	2.12	2.19	2.10	2.14	2.21	2.28	2.16	2.21	2.28	2.35	2.16	2.21	2.28	2.35	2.16	2.21	2.28	2.35
	Amps	6.8	6.9	7.1	7.4	7.3	7.4	7.7	7.9	7.8	8.0	8.2	8.5	8.3	8.5	8.8	9.1	8.8	9.0	9.3	9.6	9.3	9.5	9.8	10.1	9.3	9.5	9.8	10.1	9.3	9.5	9.8	10.1
	HI PR	142	153	161	168	159	171	181	189	181	195	206	214	206	222	234	244	232	250	263	275	256	276	291	304	256	276	291	304	256	276	291	304
	LO PR	61	64	70	75	64	68	74	79	67	71	77	82	70	74	81	86	73	78	85	91	76	81	88	94	76	81	88	94	76	81	88	94
80	MBh	23.6	24.1	25.8	27.6	23.1	23.6	25.2	26.9	22.5	23.0	24.6	26.3	22.0	22.5	24.0	25.7	20.9	21.3	22.8	24.4	19.3	19.8	21.1	22.6	19.3	19.8	21.1	22.6	19.3	19.8	21.1	22.6
	S/T	0.88	0.82	0.67	0.50	0.91	0.85	0.70	0.52	0.93	0.88	0.71	0.53	0.96	0.90	0.74	0.55	1.00	0.94	0.76	0.57	1.00	0.95	0.77	0.58	1.00	0.95	0.77	0.58	1.00	0.95	0.77	0.58
	ΔT	23	22	19	16	24	23	20	16	24	23	20	16	24	23	20	16	23	22	20	16	22	21	18	15	22	21	18	15	22	21	18	15
	kW	1.69	1.72	1.77	1.82	1.81	1.84	1.90	1.95	1.91	1.95	2.01	2.07	2.00	2.04	2.11	2.17	2.08	2.12	2.19	2.26	2.15	2.19	2.26	2.33	2.15	2.19	2.26	2.33	2.15	2.19	2.26	2.33
	Amps	6.7	6.9	7.1	7.3	7.2	7.4	7.6	7.8	7.8	7.9	8.2	8.5	8.3	8.4	8.7	9.0	8.7	8.9	9.2	9.5	9.2	9.4	9.7	10.0	9.2	9.4	9.7	10.0	9.2	9.4	9.7	10.0
	HI PR	140	151	160	166	158	170	179	187	179	193	204	212	204	220	232	242	230	247	261	272	254	273	288	301	254	273	288	301	254	273	288	301
	LO PR	60	64	70	74	63	67	74	78	66	70	76	81	69	74	80	86	72	77	84	90	75	80	87	93	75	80	87	93	75	80	87	93
718	MBh	21.8	22.3	23.8	25.5	21.3	21.8	23.3	24.9	20.8	21.3	22.7	24.3	20.3	20.7	22.2	23.7	19.3	19.7	21.0	22.5	17.9	18.2	19.5	20.8	17.9	18.2	19.5	20.8	17.9	18.2	19.5	20.8
	S/T	0.85	0.80	0.65	0.48	0.88	0.82	0.67	0.50	0.90	0.85	0.69	0.51	0.93	0.87	0.71	0.53	0.97	0.91	0.74	0.55	0.97	0.91	0.74	0.56	0.97	0.91	0.74	0.56	0.97	0.91	0.74	0.56
	ΔT	24	23	20	16	24	23	20	16	24	23	20	16	24	23	20	16	24	23	20	16	22	21	19	15	22	21	19	15	22	21	19	15
	kW	1.65	1.68	1.73	1.78	1.77	1.80	1.85	1.91	1.87	1.90	1.96	2.02	1.96	2.00	2.06	2.12	2.03	2.07	2.14	2.20	2.10	2.14	2.21	2.28	2.10	2.14	2.21	2.28	2.10	2.14	2.21	2.28
	Amps	6.6	6.7	6.9	7.1	7.0	7.2	7.4	7.7	7.6	7.7	8.0	8.2	8.0	8.2	8.5	8.8	8.5	8.7	9.0	9.3	9.0	9.2	9.5	9.8	9.0	9.2	9.5	9.8	9.0	9.2	9.5	9.8
	HI PR	136	147	155	161	153	164	174	181	174	187	197	206	198	213	225	235	223	240	253	264	246	265	280	292	246	265	280	292	246	265	280	292
	LO PR	58	62	68	72	61	65	71	76	64	68	74	79	67	71	78	83	70	75	82	87	73	77	84	90	73	77	84	90	73	77	84	90

923	MBh	24.77	25.25	26.44	28.21	24.19	24.66	25.83	27.55	23.62	24.07	25.21	26.90	23.04	23.48	24.60	26.24	21.89	22.31	23.37	24.93	20.27	20.67	21.64	23.09
	S/T	0.97	0.93	0.84	0.68	1.00	0.97	0.87	0.71	1.00	0.99	0.89	0.73	1.00	1.00	0.92	0.75	1.00	1.00	0.96	0.78	1.00	1.00	0.97	0.78
	ΔT	24	23	22	19	24	24	22	19	24	24	22	19	23	23	23	20	22	22	22	19	20	21	21	18
	kW	1.71	1.75	1.80	1.85	1.83	1.87	1.92	1.98	1.94	1.98	2.04	2.10	2.03	2.07	2.14	2.21	2.11	2.16	2.22	2.29	2.18	2.23	2.30	2.37
	Amps	6.8	7.0	7.2	7.4	7.3	7.5	7.7	8.0	7.9	8.1	8.3	8.6	8.4	8.6	8.8	9.1	8.9	9.1	9.4	9.7	9.4	9.6	9.9	10.2
	HI PR	143	154	163	170	161	173	183	190	183	197	208	217	208	224	237	247	234	252	266	278	259	278	294	307
	LO PR	61	65	71	76	65	69	75	80	67	71	78	83	71	75	82	87	74	79	86	91	76	81	89	95
	MBh	24.0	24.5	25.7	27.4	23.5	23.9	25.1	26.8	22.9	23.4	24.5	26.1	22.4	22.8	23.9	25.5	21.2	21.7	22.7	24.2	19.7	20.1	21.0	22.4
	S/T	0.92	0.89	0.80	0.65	0.96	0.92	0.83	0.67	0.98	0.95	0.85	0.69	1.00	0.98	0.88	0.71	1.00	1.00	0.91	0.74	1.00	1.00	0.92	0.75
	ΔT	25	24	23	20	25	25	23	20	25	25	23	20	25	25	24	20	24	24	23	20	22	22	22	19
820	kW	1.70	1.73	1.78	1.84	1.82	1.86	1.91	1.97	1.92	1.96	2.02	2.08	2.02	2.06	2.12	2.19	2.10	2.14	2.21	2.28	2.16	2.21	2.28	2.35
	Amps	6.8	6.9	7.1	7.4	7.3	7.4	7.7	7.9	7.8	8.0	8.2	8.5	8.3	8.5	8.8	9.1	8.8	9.0	9.3	9.6	9.3	9.5	9.8	10.1
	HI PR	142	153	161	168	159	171	181	189	181	195	206	214	206	222	234	244	232	250	263	275	256	276	291	304
	LO PR	61	64	70	75	64	68	74	79	67	71	77	82	70	74	81	86	73	78	85	91	76	81	88	94
	MBh	22.2	22.6	23.7	25.3	21.7	22.1	23.1	24.7	21.2	21.6	22.6	24.1	20.6	21.0	22.0	23.5	19.6	20.0	20.9	22.3	18.2	18.5	19.4	20.7
	S/T	0.89	0.86	0.77	0.63	0.92	0.89	0.80	0.65	0.94	0.91	0.82	0.67	0.98	0.94	0.85	0.69	1.00	0.98	0.88	0.71	1.00	0.98	0.89	0.72
	ΔT	25	25	24	20	26	25	24	21	26	25	24	21	26	25	24	21	25	25	24	20	23	23	22	19
	kW	1.66	1.69	1.74	1.79	1.78	1.81	1.87	1.92	1.88	1.92	1.98	2.04	1.97	2.01	2.07	2.14	2.05	2.09	2.15	2.22	2.11	2.16	2.22	2.30
	Amps	6.6	6.8	7.0	7.2	7.1	7.3	7.5	7.7	7.6	7.8	8.0	8.3	8.1	8.3	8.5	8.8	8.6	8.8	9.0	9.4	9.0	9.3	9.5	9.9
	HI PR	138	148	156	163	154	166	175	183	176	189	199	208	200	215	227	237	225	242	256	267	248	267	282	295
LO PR	59	63	68	73	62	66	72	77	65	69	75	80	68	72	79	84	71	76	82	88	73	78	85	91	

EXPANDED COOLING DATA — VSH130301A***

		Outdoor Ambient Temperature																								
		65°F				75°F				85°F				95°F				105°F				115°F				
IDB	Airflow	59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71	
70	1173	MBh	27.0	28.0	30.7	-	26.4	27.4	30.0	-	25.8	26.7	29.3	-	25.2	26.1	28.6	-	23.9	24.8	27.1	-	22.1	22.9	25.1	-
		S/T	0.75	0.63	0.43	-	0.78	0.65	0.45	-	0.80	0.67	0.46	-	0.82	0.69	0.48	-	0.85	0.71	0.49	-	0.86	0.72	0.50	-
		ΔT	16	14	10	-	16	14	11	-	16	14	11	-	16	14	11	-	16	14	11	-	15	13	10	-
		kW	2.04	2.08	2.14	-	2.19	2.24	2.31	-	2.32	2.37	2.45	-	2.44	2.49	2.57	-	2.54	2.60	2.68	-	2.63	2.69	2.77	-
	Amps	7.6	7.8	8.1	-	8.2	8.4	8.7	-	9.0	9.2	9.5	-	9.6	9.8	10.2	-	10.2	10.5	10.8	-	10.8	11.1	11.5	-	
	HI PR	141	152	161	-	159	171	180	-	181	194	205	-	206	221	234	-	231	249	263	-	256	275	290	-	
	LO PR	62	66	73	-	66	70	77	-	69	73	80	-	72	77	84	-	75	80	88	-	78	83	91	-	
	MBh	26.6	27.6	30.3	-	26.0	27.0	29.5	-	25.4	26.3	28.8	-	24.8	25.7	28.1	-	23.5	24.4	26.7	-	21.8	22.6	24.8	-	
	S/T	0.72	0.60	0.42	-	0.74	0.62	0.43	-	0.76	0.64	0.44	-	0.79	0.66	0.46	-	0.82	0.68	0.47	-	0.82	0.69	0.48	-	
	ΔT	17	15	11	-	17	15	11	-	17	15	11	-	17	15	11	-	17	15	11	-	16	14	10	-	
1050	kW	2.03	2.07	2.13	-	2.18	2.22	2.29	-	2.31	2.36	2.43	-	2.43	2.48	2.56	-	2.53	2.58	2.67	-	2.61	2.67	2.76	-	
	Amps	7.6	7.8	8.0	-	8.2	8.4	8.7	-	8.9	9.1	9.4	-	9.5	9.8	10.1	-	10.1	10.4	10.7	-	10.8	11.0	11.4	-	
	HI PR	140	151	160	-	158	170	179	-	179	193	204	-	204	220	232	-	230	247	261	-	254	273	288	-	
	LO PR	62	66	72	-	66	70	76	-	68	72	79	-	72	76	83	-	75	80	87	-	78	82	90	-	
927	MBh	25.3	26.2	28.7	-	24.7	25.6	28.1	-	24.1	25.0	27.4	-	23.5	24.4	26.7	-	22.4	23.2	25.4	-	20.7	21.5	23.5	-	
	S/T	0.69	0.57	0.40	-	0.71	0.60	0.41	-	0.73	0.61	0.42	-	0.75	0.63	0.44	-	0.78	0.65	0.45	-	0.79	0.66	0.46	-	
	ΔT	17	15	11	-	17	15	11	-	18	15	12	-	18	15	12	-	17	15	11	-	16	14	11	-	
	kW	2.00	2.04	2.10	-	2.14	2.19	2.26	-	2.27	2.32	2.40	-	2.39	2.44	2.52	-	2.49	2.54	2.62	-	2.57	2.63	2.71	-	
	Amps	7.4	7.6	7.9	-	8.0	8.2	8.5	-	8.7	9.0	9.3	-	9.3	9.6	9.9	-	10.0	10.2	10.5	-	10.6	10.8	11.2	-	
	HI PR	138	148	156	-	154	166	176	-	176	189	200	-	200	215	227	-	225	242	256	-	249	268	283	-	
	LO PR	61	65	71	-	64	68	75	-	67	71	78	-	70	75	81	-	73	78	85	-	76	81	88	-	

1173	MBh	27.50	28.31	30.64	32.89	26.86	27.65	29.93	32.12	26.22	26.99	29.22	31.36	25.58	26.34	28.51	30.59	24.30	25.02	27.08	29.06	22.51	23.17	25.08	26.92
	S/T	0.85	0.76	0.58	0.37	0.88	0.79	0.60	0.38	0.91	0.81	0.61	0.39	0.94	0.84	0.63	0.41	0.97	0.87	0.66	0.42	0.98	0.88	0.66	0.43
	ΔT	18	17	14	10	19	17	14	10	19	17	14	10	19	17	14	10	18	17	14	10	17	16	13	9
	kW	2.05	2.10	2.16	2.23	2.21	2.25	2.32	2.40	2.34	2.39	2.47	2.55	2.46	2.52	2.60	2.68	2.56	2.62	2.70	2.79	2.65	2.71	2.80	2.89
	Amps	7.7	7.9	8.1	8.4	8.3	8.5	8.8	9.1	9.0	9.3	9.6	9.9	9.7	9.9	10.3	10.6	10.3	10.6	10.9	11.3	10.9	11.2	11.6	12.0
	HI PR	143	154	162	169	160	173	182	190	182	196	207	216	208	224	236	246	234	251	266	277	258	278	293	306
	LO PR	63	67	73	78	67	71	77	82	69	74	80	86	73	77	85	90	76	81	89	94	79	84	92	98
	MBh	27.1	27.9	30.2	32.4	26.5	27.2	29.5	31.6	25.8	26.6	28.8	30.9	25.2	25.9	28.1	30.1	23.9	24.6	26.7	28.6	22.2	22.8	24.7	26.5
	S/T	0.82	0.73	0.55	0.36	0.85	0.76	0.57	0.37	0.87	0.78	0.59	0.38	0.90	0.80	0.61	0.39	0.93	0.83	0.63	0.40	0.94	0.84	0.63	0.41
	ΔT	19	18	15	10	20	18	15	10	20	18	15	10	20	18	15	10	19	18	15	10	18	17	14	9
1050	kW	2.04	2.08	2.15	2.22	2.19	2.24	2.31	2.38	2.33	2.38	2.45	2.53	2.45	2.50	2.58	2.67	2.55	2.60	2.69	2.78	2.64	2.69	2.78	2.87
	Amps	7.6	7.8	8.1	8.4	8.3	8.5	8.8	9.1	9.0	9.2	9.5	9.9	9.6	9.9	10.2	10.6	10.2	10.5	10.8	11.3	10.9	11.1	11.5	11.9
	HI PR	142	153	161	168	159	171	181	189	181	195	206	215	206	222	234	244	232	250	264	275	256	276	291	304
	LO PR	63	67	73	77	66	70	77	82	69	73	80	85	72	77	84	89	76	81	88	94	78	83	91	97
	MBh	25.7	26.5	28.7	30.8	25.1	25.9	28.0	30.1	24.5	25.3	27.3	29.4	23.9	24.65	26.7	28.6	22.7	23.4	25.3	27.2	21.1	21.7	23.5	25.2
	S/T	0.78	0.70	0.53	0.34	0.81	0.73	0.55	0.35	0.83	0.74	0.56	0.36	0.86	0.77	0.58	0.37	0.89	0.80	0.60	0.39	0.90	0.80	0.61	0.39
	ΔT	20	18	15	10	20	19	15	11	20	19	15	11	20	19	15	11	20	19	15	10	19	17	14	10
	kW	2.01	2.05	2.11	2.18	2.16	2.21	2.27	2.35	2.29	2.34	2.41	2.49	2.41	2.46	2.54	2.62	2.51	2.56	2.64	2.73	2.59	2.65	2.74	2.83
	Amps	7.5	7.7	7.9	8.2	8.1	8.3	8.6	8.9	8.8	9.0	9.3	9.7	9.4	9.7	10.0	10.4	10.0	10.3	10.6	11.1	10.7	10.9	11.3	11.7
	HI PR	139	150	158	165	156	168	177	185	177	191	202	210	202	218	230	240	227	245	258	270	251	270	286	298
LO PR	61	65	71	76	65	69	75	80	67	72	78	83	71	75	82	88	74	79	86	92	77	82	89	95	

IDB: Entering Indoor Dry Bulb Temperature kW=Total system power Shaded area reflects ACCA (TVA) conditions Amps = outdoor unit amps (comp.+fan)
 High and low pressures are measured at the liquid and suction service valves. Design Subcooling 9 ±3 °F @ the liquid service valve, ARI 95 test conditions

EXPANDED COOLING DATA — VSH130301A*** (CONT.)

		Outdoor Ambient Temperature																							
		65°F				75°F				85°F				95°F				105°F				115°F			
IDB	Airflow	59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71
80	MBh	27.99	28.60	30.55	32.66	27.33	27.93	29.84	31.90	26.68	27.27	29.13	31.14	26.03	26.60	28.42	30.38	24.73	25.27	27.00	28.86	22.91	23.41	25.01	26.74
	S/T	0.94	0.88	0.71	0.53	0.97	0.91	0.74	0.55	1.00	0.93	0.76	0.57	1.00	0.96	0.78	0.59	1.00	1.00	0.81	0.61	1.00	1.00	0.82	0.61
	ΔT	21	20	17	14	21	20	17	14	21	20	17	14	20	20	17	14	19	20	17	14	18	18	16	13
	KW	2.07	2.11	2.18	2.25	2.22	2.27	2.34	2.42	2.36	2.41	2.49	2.57	2.48	2.54	2.62	2.70	2.58	2.64	2.73	2.82	2.67	2.73	2.82	2.92
	Amps	7.8	8.0	8.2	8.5	8.4	8.6	8.9	9.2	9.1	9.4	9.7	10.0	9.8	10.0	10.3	10.7	10.4	10.7	11.0	11.4	11.0	11.3	11.7	12.1
	HI PR	144	155	164	171	162	174	184	192	184	198	209	218	210	226	238	249	236	254	268	280	261	281	296	309
	LO PR	64	68	74	79	67	72	78	83	70	74	81	87	74	78	85	91	77	82	89	95	80	85	93	99
	MBh	27.6	28.2	30.1	32.2	26.9	27.5	29.4	31.4	26.3	26.9	28.7	30.7	25.6	26.2	28.0	29.9	24.4	24.9	26.6	28.4	22.6	23.1	24.6	26.3
	S/T	0.90	0.84	0.68	0.51	0.93	0.87	0.71	0.53	0.95	0.89	0.73	0.54	0.98	0.92	0.75	0.56	1.00	0.96	0.78	0.58	1.00	0.96	0.78	0.59
	ΔT	22	21	18	14	22	21	18	15	22	21	18	15	22	21	18	15	21	21	18	14	20	19	17	14
927	KW	2.06	2.10	2.17	2.23	2.21	2.26	2.33	2.40	2.35	2.40	2.47	2.55	2.47	2.52	2.60	2.69	2.57	2.63	2.71	2.80	2.66	2.72	2.80	2.90
	Amps	7.7	7.9	8.2	8.5	8.3	8.5	8.8	9.2	9.1	9.3	9.6	10.0	9.7	9.9	10.3	10.7	10.3	10.6	11.0	11.4	11.0	11.2	11.6	12.1
	HI PR	143	154	163	170	161	173	183	191	183	197	208	217	208	224	237	247	234	252	266	278	259	279	294	307
	LO PR	63	67	74	78	67	71	78	83	69	74	81	86	73	78	85	90	76	81	89	95	79	84	92	98
	MBh	26.2	26.8	28.6	30.6	25.6	26.1	27.9	29.9	25.0	25.5	27.3	29.1	24.4	24.9	26.6	28.4	23.1	23.7	25.3	27.0	21.4	21.9	23.4	25.0
	S/T	0.86	0.80	0.65	0.49	0.89	0.83	0.68	0.51	0.91	0.86	0.70	0.52	0.94	0.88	0.72	0.54	0.98	0.92	0.75	0.56	0.99	0.92	0.75	0.56
	ΔT	22	21	19	15	23	22	19	15	23	22	19	15	23	22	19	15	22	21	19	15	21	20	17	14
	KW	2.03	2.07	2.13	2.20	2.18	2.22	2.29	2.37	2.31	2.36	2.43	2.51	2.43	2.48	2.56	2.64	2.53	2.58	2.67	2.75	2.61	2.67	2.76	2.85
	Amps	7.6	7.8	8.0	8.3	8.2	8.4	8.7	9.0	8.9	9.1	9.4	9.8	9.5	9.8	10.1	10.5	10.1	10.4	10.7	11.2	10.8	11.0	11.4	11.8
	HI PR	140	151	160	166	158	170	179	187	179	193	204	212	204	220	232	242	230	247	261	272	254	273	288	301
	LO PR	62	66	72	77	66	70	76	81	68	72	79	84	72	76	83	88	75	80	87	93	78	82	90	96

1173	MBh	28.47	29.03	30.40	32.43	27.81	28.35	29.69	31.68	27.15	27.68	28.98	30.92	26.49	27.00	28.28	30.17	25.16	25.65	26.86	28.66	23.31	23.76	24.88	26.55
	S/T	0.98	0.95	0.85	0.69	1.00	0.98	0.89	0.72	1.00	1.00	0.91	0.74	1.00	1.00	0.94	0.76	1.00	1.00	0.97	0.79	1.00	1.00	0.98	0.80
	ΔT	22	22	20	18	22	22	21	18	21	22	21	18	21	21	21	18	20	20	20	18	18	19	19	17
	KW	2.09	2.13	2.19	2.26	2.24	2.29	2.36	2.44	2.38	2.43	2.51	2.59	2.50	2.56	2.64	2.73	2.61	2.66	2.75	2.84	2.70	2.75	2.84	2.94
	Amps	7.8	8.0	8.3	8.6	8.5	8.7	9.0	9.3	9.2	9.4	9.8	10.1	9.9	10.1	10.4	10.8	10.5	10.8	11.1	11.6	11.1	11.4	11.8	12.3
	HI PR	146	157	166	173	164	176	186	194	186	200	211	221	212	228	241	251	238	257	271	283	263	283	299	312
	LO PR	64	68	75	80	68	72	79	84	71	75	82	87	74	79	86	92	78	83	90	96	80	86	93	100
	MBh	28.1	28.6	29.9	32.0	27.4	27.9	29.3	31.2	26.7	27.3	28.6	30.5	26.1	26.6	27.9	29.7	24.8	25.3	26.5	28.2	23.0	23.4	24.5	26.2
	S/T	0.94	0.91	0.82	0.66	0.97	0.94	0.85	0.69	1.00	0.96	0.87	0.71	1.00	0.99	0.90	0.73	1.00	1.00	0.93	0.76	1.00	1.00	0.94	0.76
	ΔT	23	23	21	19	23	23	22	19	23	23	22	19	23	23	22	19	22	22	22	19	20	20	20	17
1050	KW	2.07	2.12	2.18	2.25	2.23	2.28	2.35	2.42	2.37	2.42	2.49	2.58	2.49	2.54	2.62	2.71	2.59	2.65	2.73	2.82	2.68	2.74	2.83	2.92
	Amps	7.8	8.0	8.2	8.5	8.4	8.6	8.9	9.3	9.2	9.4	9.7	10.1	9.8	10.0	10.4	10.8	10.4	10.7	11.1	11.5	11.1	11.3	11.7	12.2
	HI PR	145	156	165	172	162	175	185	193	185	199	210	219	210	226	239	249	237	255	269	281	262	281	297	310
	LO PR	64	68	74	79	68	72	78	84	70	75	82	87	74	78	86	91	77	82	90	96	80	85	93	99
	MBh	26.7	27.2	28.5	30.4	26.0	26.5	27.8	29.6	25.4	25.9	27.1	28.9	24.8	25.3	26.5	28.2	23.6	24.0	25.1	26.8	21.8	22.2	23.3	24.8
	S/T	0.90	0.87	0.78	0.64	0.93	0.90	0.81	0.66	0.96	0.92	0.83	0.68	0.99	0.95	0.86	0.70	1.00	0.99	0.89	0.72	1.00	1.00	0.90	0.73
	ΔT	24	23	22	19	24	24	22	19	24	24	22	19	24	24	23	20	23	24	22	19	22	22	21	18
	KW	2.04	2.08	2.15	2.22	2.19	2.24	2.31	2.38	2.33	2.38	2.45	2.53	2.45	2.50	2.58	2.66	2.55	2.60	2.69	2.78	2.64	2.69	2.78	2.87
	Amps	7.6	7.8	8.1	8.4	8.3	8.5	8.8	9.1	9.0	9.2	9.5	9.9	9.6	9.9	10.2	10.6	10.2	10.5	10.8	11.3	10.9	11.1	11.5	11.9
	HI PR	142	153	161	168	159	171	181	189	181	195	206	215	206	222	234	244	232	250	264	275	256	276	291	304
	LO PR	63	67	73	77	66	70	77	82	69	73	80	85	72	77	84	89	76	81	88	94	78	83	91	97

IDB: Entering Indoor Dry Bulb Temperature
High and low pressures are measured at the liquid and suction service valves.

Shaded area reflects ARI conditions
Design Subcooling 9 ±3 °F @ the liquid service valve, ARI 95 test conditions

Amps = outdoor unit amps (comp.+fan)

kW=Total system power

EXPANDED COOLING DATA — VSH130311A***

		Outdoor Ambient Temperature																							
		65°F				75°F				85°F				95°F				105°F				115°F			
IDB	Airflow	59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71
70	MBh	26.5	27.4	30.0	-	25.8	26.8	29.3	-	25.2	26.1	28.6	-	24.6	25.5	28.0	-	23.4	24.2	26.6	-	21.7	22.4	24.6	-
	S/T	0.78	0.65	0.45	-	0.81	0.67	0.47	-	0.83	0.69	0.48	-	0.85	0.71	0.49	-	0.89	0.74	0.51	-	0.89	0.75	0.52	-
	ΔT	16	14	11	-	16	14	11	-	16	14	11	-	16	14	11	-	16	14	11	-	15	13	10	-
	kW	1.81	1.85	1.91	-	1.96	2.00	2.07	-	2.09	2.13	2.21	-	2.20	2.25	2.33	-	2.30	2.35	2.43	-	2.38	2.44	2.52	-
	Amps	8.0	8.1	8.4	-	8.6	8.8	9.0	-	9.3	9.5	9.8	-	9.9	10.1	10.4	-	10.5	10.7	11.0	-	11.0	11.3	11.7	-
	HI PR	147	159	168	-	165	178	188	-	188	202	214	-	214	231	244	-	241	259	274	-	266	287	303	-
	LO PR	61	65	71	-	65	69	75	-	67	72	78	-	71	75	82	-	74	79	86	-	77	82	89	-
	MBh	26.1	27.0	29.6	-	25.5	26.4	28.9	-	24.9	25.8	28.2	-	24.2	25.1	27.5	-	23.0	23.9	26.2	-	21.3	22.1	24.2	-
	S/T	0.74	0.62	0.43	-	0.77	0.64	0.45	-	0.79	0.66	0.46	-	0.82	0.68	0.47	-	0.85	0.71	0.49	-	0.85	0.71	0.49	-
	ΔT	17	15	11	-	17	15	11	-	17	15	11	-	17	15	11	-	17	15	11	-	16	14	10	-
1050	kW	1.80	1.84	1.90	-	1.95	1.99	2.06	-	2.07	2.12	2.19	-	2.19	2.24	2.31	-	2.28	2.34	2.42	-	2.37	2.42	2.51	-
	Amps	7.9	8.1	8.3	-	8.5	8.7	9.0	-	9.2	9.4	9.7	-	9.8	10.0	10.3	-	10.4	10.6	11.0	-	11.0	11.2	11.6	-
	HI PR	146	158	166	-	164	177	187	-	187	201	212	-	213	229	242	-	239	258	272	-	265	285	301	-
	LO PR	61	65	71	-	64	69	75	-	67	71	78	-	70	75	82	-	74	78	86	-	76	81	89	-
	MBh	24.8	25.7	28.1	-	24.2	25.1	27.5	-	23.6	24.5	26.8	-	23.0	23.9	26.2	-	21.9	22.7	24.9	-	20.3	21.0	23.0	-
927	S/T	0.71	0.60	0.41	-	0.74	0.62	0.43	-	0.76	0.63	0.44	-	0.78	0.65	0.45	-	0.81	0.68	0.47	-	0.82	0.68	0.47	-
	ΔT	18	15	12	-	18	15	12	-	18	15	12	-	18	15	12	-	18	15	12	-	16	14	11	-
	kW	1.77	1.81	1.87	-	1.91	1.96	2.02	-	2.04	2.09	2.16	-	2.15	2.20	2.27	-	2.24	2.30	2.38	-	2.33	2.38	2.46	-
	Amps	7.8	8.0	8.2	-	8.4	8.6	8.8	-	9.0	9.3	9.5	-	9.6	9.8	10.2	-	10.2	10.4	10.8	-	10.8	11.0	11.4	-
	HI PR	143	154	163	-	161	173	183	-	183	197	208	-	209	224	237	-	235	253	267	-	259	279	295	-
LO PR	60	64	69	-	63	67	73	-	66	70	76	-	69	73	80	-	72	77	84	-	75	80	87	-	

1173	MBh	26.91	27.70	29.99	32.18	26.28	27.06	29.29	31.43	25.66	26.42	28.59	30.69	25.03	25.77	27.89	29.94	23.78	24.48	26.50	28.44	22.03	22.68	24.55	26.35
	S/T	0.88	0.79	0.60	0.38	0.92	0.82	0.62	0.40	0.94	0.84	0.64	0.41	0.97	0.87	0.66	0.42	1.00	0.90	0.68	0.44	1.00	0.91	0.69	0.44
	ΔT	19	17	14	10	19	17	14	10	19	17	14	10	19	18	14	10	19	17	14	10	17	16	13	9
	kW	1.83	1.87	1.93	1.99	1.97	2.02	2.09	2.16	2.11	2.15	2.23	2.30	2.22	2.27	2.35	2.43	2.32	2.37	2.45	2.54	2.40	2.46	2.54	2.63
	Amps	8.0	8.2	8.5	8.8	8.6	8.8	9.1	9.4	9.3	9.6	9.8	10.2	9.9	10.2	10.5	10.9	10.5	10.8	11.1	11.5	11.1	11.4	11.8	12.2
	HI PR	149	160	169	177	167	180	190	198	190	205	216	225	216	233	246	257	244	262	277	289	269	290	306	319
	LO PR	62	66	72	77	66	70	76	81	68	72	79	84	72	76	83	89	75	80	87	93	78	83	90	96
	1050	MBh	26.5	27.3	29.5	31.7	25.9	26.7	28.9	31.0	25.3	26.0	28.2	30.2	24.7	25.4	27.5	29.5	23.4	24.1	26.1	28.0	21.7	22.3	24.2
S/T		0.85	0.76	0.57	0.37	0.88	0.78	0.59	0.38	0.90	0.80	0.61	0.39	0.93	0.83	0.63	0.40	0.96	0.86	0.65	0.42	0.97	0.87	0.66	0.42
ΔT		20	18	15	10	20	18	15	10	20	18	15	10	20	18	15	10	20	18	15	10	18	17	14	10
kW		1.82	1.86	1.92	1.98	1.96	2.01	2.07	2.15	2.09	2.14	2.21	2.29	2.21	2.26	2.34	2.42	2.30	2.36	2.44	2.52	2.39	2.44	2.53	2.62
Amps		8.0	8.2	8.4	8.7	8.6	8.8	9.1	9.4	9.3	9.5	9.8	10.1	9.9	10.1	10.4	10.8	10.5	10.7	11.1	11.5	11.1	11.3	11.7	12.1
HI PR		148	159	168	175	166	179	189	197	189	203	215	224	215	231	244	255	242	260	275	287	267	288	304	317
LO PR		62	66	72	76	65	69	76	81	68	72	79	84	71	76	83	88	74	79	86	92	77	82	89	95
927		MBh	25.2	25.9	28.1	30.1	24.6	25.3	27.4	29.4	24.0	24.7	26.8	28.7	23.4	24.12	26.1	28.0	22.3	22.9	24.8	26.6	20.6	21.2	23.0
	S/T	0.81	0.72	0.55	0.35	0.84	0.75	0.57	0.37	0.86	0.77	0.58	0.38	0.89	0.80	0.60	0.39	0.92	0.83	0.62	0.40	0.93	0.83	0.63	0.41
	ΔT	20	19	15	11	20	19	15	11	21	19	15	11	21	19	16	11	20	19	15	11	19	18	14	10
	kW	1.79	1.83	1.89	1.95	1.93	1.97	2.04	2.11	2.06	2.10	2.17	2.25	2.17	2.22	2.29	2.37	2.26	2.32	2.40	2.48	2.35	2.40	2.48	2.57
	Amps	7.9	8.0	8.3	8.6	8.4	8.6	8.9	9.2	9.1	9.3	9.6	10.0	9.7	9.9	10.2	10.6	10.3	10.5	10.9	11.3	10.9	11.1	11.5	11.9
	HI PR	145	156	165	172	163	175	185	193	185	199	210	219	211	227	239	250	237	255	269	281	262	282	298	310
	LO PR	60	64	70	75	64	68	74	79	66	71	77	82	70	74	81	86	73	78	85	90	75	80	88	93

EXPANDED COOLING DATA — VSH130311A*** (CONT.)

		Outdoor Ambient Temperature																											
		65°F				75°F				85°F				95°F				105°F				115°F							
IDB	Airflow	59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71
80	MBh	27.39	27.98	29.90	31.96	26.75	27.33	29.20	31.22	26.11	26.68	28.51	30.47	25.47	26.03	27.81	29.73	24.20	24.73	26.42	28.24	22.42	22.91	24.47	26.16	22.42	22.91	24.47	26.16
	S/T	0.97	0.91	0.74	0.55	1.00	0.94	0.77	0.57	1.00	0.97	0.79	0.59	1.00	1.00	0.81	0.61	1.00	1.00	0.84	0.63	1.00	1.00	0.85	0.63	1.00	1.00	0.85	0.63
	ΔT	21	20	17	14	21	20	18	14	20	20	18	14	20	20	18	14	19	19	17	14	18	18	16	13	18	18	16	13
	kW	1.84	1.88	1.95	2.01	1.99	2.04	2.11	2.18	2.12	2.17	2.25	2.32	2.24	2.29	2.37	2.45	2.34	2.39	2.48	2.56	2.42	2.48	2.57	2.66	2.42	2.48	2.57	2.66
	Amps	8.1	8.3	8.5	8.8	8.7	8.9	9.2	9.5	9.4	9.6	9.9	10.3	10.0	10.3	10.6	11.0	10.6	10.9	11.2	11.6	11.2	11.5	11.9	12.3	11.2	11.5	11.9	12.3
	HI PR	150	162	171	178	169	182	192	200	192	207	218	228	219	235	249	259	246	265	280	292	272	293	309	322	272	293	309	322
	LO PR	63	67	73	78	66	70	77	82	69	73	80	85	72	77	84	89	76	81	88	94	78	83	91	97	78	83	91	97
	MBh	27.0	27.6	29.5	31.5	26.4	26.9	28.8	30.8	25.7	26.3	28.1	30.0	25.1	25.6	27.4	29.3	23.8	24.4	26.0	27.8	22.1	22.6	24.1	25.8	22.1	22.6	24.1	25.8
	S/T	0.93	0.87	0.71	0.53	0.96	0.90	0.73	0.55	0.99	0.92	0.75	0.56	1.00	0.95	0.78	0.58	1.00	0.99	0.81	0.60	1.00	1.00	0.81	0.61	1.00	1.00	0.81	0.61
1050	ΔT	22	21	18	15	22	21	18	15	22	21	19	15	22	21	19	15	21	21	18	15	19	20	17	14	19	20	17	14
	kW	1.83	1.87	1.93	2.00	1.98	2.02	2.09	2.16	2.11	2.16	2.23	2.31	2.23	2.28	2.36	2.44	2.32	2.38	2.46	2.55	2.41	2.47	2.55	2.64	2.41	2.47	2.55	2.64
	Amps	8.1	8.2	8.5	8.8	8.7	8.9	9.1	9.5	9.4	9.6	9.9	10.2	10.0	10.2	10.5	10.9	10.6	10.8	11.2	11.6	11.2	11.4	11.8	12.2	11.2	11.4	11.8	12.2
	HI PR	149	161	170	177	168	180	191	199	191	205	217	226	217	234	247	257	244	263	278	290	270	290	307	320	270	290	307	320
	LO PR	62	66	72	77	66	70	76	81	68	73	79	85	72	76	83	89	75	80	87	93	78	83	90	96	78	83	90	96
	MBh	25.6	26.2	28.0	29.9	25.0	25.6	27.3	29.2	24.4	25.0	26.7	28.5	23.8	24.4	26.0	27.8	22.7	23.1	24.7	26.4	21.0	21.4	22.9	24.5	21.0	21.4	22.9	24.5
	S/T	0.89	0.83	0.68	0.51	0.92	0.86	0.70	0.53	0.94	0.89	0.72	0.54	0.98	0.91	0.74	0.56	1.01	0.95	0.77	0.58	1.02	0.96	0.78	0.58	1.02	0.96	0.78	0.58
	ΔT	23	22	19	15	23	22	19	15	23	22	19	15	23	22	19	15	23	22	19	15	21	20	18	14	21	20	18	14
	kW	1.80	1.84	1.90	1.97	1.95	1.99	2.06	2.13	2.07	2.12	2.19	2.27	2.19	2.24	2.31	2.40	2.28	2.34	2.42	2.50	2.37	2.42	2.51	2.59	2.37	2.42	2.51	2.59
927	Amps	7.9	8.1	8.3	8.6	8.5	8.7	9.0	9.3	9.2	9.4	9.7	10.0	9.8	10.0	10.3	10.7	10.4	10.6	11.0	11.4	11.0	11.2	11.6	12.0	11.0	11.2	11.6	12.0
	HI PR	146	158	166	174	164	177	187	195	187	201	212	221	213	229	242	252	239	258	272	284	265	285	301	314	265	285	301	314
	LO PR	61	65	71	75	64	69	75	80	67	71	78	83	70	75	82	87	74	78	86	91	76	81	89	94	76	81	89	94

1173	MBh	27.86	28.40	29.75	31.74	27.22	27.74	29.06	31.00	26.57	27.08	28.36	30.26	25.92	26.42	27.67	29.52	24.62	25.10	26.29	28.05	22.81	23.25	24.35	25.98
	S/T	1.00	0.98	0.88	0.72	1.00	1.00	0.92	0.74	1.00	1.00	0.94	0.76	1.00	1.00	0.97	0.79	1.00	1.00	0.96	0.78	1.00	1.00	0.97	0.79
	ΔT	22	22	21	18	21	22	21	18	21	21	21	18	20	21	21	18	19	20	21	18	18	18	19	17
	kW	1.86	1.90	1.96	2.03	2.01	2.05	2.12	2.20	2.14	2.19	2.27	2.34	2.26	2.31	2.39	2.47	2.36	2.41	2.50	2.59	2.45	2.50	2.59	2.68
	Amps	8.2	8.4	8.6	8.9	8.8	9.0	9.3	9.6	9.5	9.7	10.0	10.4	10.1	10.3	10.7	11.1	10.7	11.0	11.3	11.7	11.3	11.6	12.0	12.4
	HI PR	152	164	173	180	171	183	194	202	194	209	220	230	221	238	251	262	248	267	282	295	275	295	312	325
	LO PR	63	67	74	78	67	71	78	83	70	74	81	86	73	78	85	90	77	81	89	95	79	84	92	98
	1050	MBh	27.5	28.0	29.3	31.3	26.8	27.3	28.6	30.5	26.2	26.7	27.9	29.8	25.5	26.0	27.3	29.1	24.3	24.7	25.9	27.6	22.5	22.9	24.0
S/T		0.97	0.94	0.85	0.69	1.00	0.97	0.88	0.71	1.00	1.00	0.90	0.73	1.00	1.00	0.93	0.75	1.00	1.00	0.96	0.78	1.00	1.00	0.97	0.79
ΔT		23	23	22	19	23	23	22	19	23	23	22	19	22	23	22	19	21	22	22	19	20	20	20	18
kW		1.85	1.89	1.95	2.02	2.00	2.04	2.11	2.18	2.13	2.18	2.25	2.33	2.25	2.30	2.38	2.46	2.34	2.40	2.48	2.57	2.43	2.49	2.57	2.66
Amps		8.1	8.3	8.6	8.9	8.7	8.9	9.2	9.5	9.4	9.7	10.0	10.3	10.1	10.3	10.6	11.0	10.7	10.9	11.3	11.7	11.3	11.5	11.9	12.3
HI PR		151	162	171	179	169	182	192	201	193	207	219	228	219	236	249	260	247	266	280	292	273	293	310	323
LO PR		63	67	73	78	66	71	77	82	69	73	80	85	72	77	84	90	76	81	88	94	79	84	91	97
927		MBh	26.1	26.6	27.8	29.7	25.5	26.0	27.2	29.0	24.9	25.3	26.5	28.3	24.3	24.7	25.9	27.6	23.0	23.5	24.6	26.2	21.3	21.8	22.8
	S/T	0.93	0.90	0.81	0.66	0.97	0.93	0.84	0.68	0.99	0.96	0.86	0.70	1.00	0.99	0.89	0.72	1.00	1.00	0.92	0.75	1.00	1.00	0.93	0.76
	ΔT	24	24	22	19	24	24	23	20	24	24	23	20	24	24	23	20	23	23	23	20	21	22	21	18
	kW	1.82	1.86	1.92	1.98	1.96	2.01	2.07	2.15	2.09	2.14	2.21	2.29	2.21	2.26	2.33	2.42	2.30	2.36	2.44	2.52	2.39	2.44	2.53	2.62
	Amps	8.0	8.2	8.4	8.7	8.6	8.8	9.1	9.4	9.3	9.5	9.8	10.1	9.9	10.1	10.4	10.8	10.5	10.7	11.1	11.5	11.1	11.3	11.7	12.1
	HI PR	148	159	168	175	166	179	189	197	189	203	214	224	215	231	244	255	242	260	275	287	267	288	304	317
	LO PR	62	66	72	76	65	69	76	80	68	72	79	84	71	76	83	88	74	79	86	92	77	82	89	95

EXPANDED COOLING DATA — VSH130361A***

		Outdoor Ambient Temperature																																			
		65°F						75°F						85°F						95°F						105°F						115°F					
IDB	Airflow	59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71				
70	MBh	33.8	35.0	38.4	-	33.0	34.2	37.5	-	32.2	33.4	36.6	-	31.4	32.6	35.7	-	29.9	31.0	33.9	-	27.7	28.7	31.4	-	27.7	28.7	31.4	-	27.7	28.7	31.4	-				
	S/T	0.76	0.63	0.44	-	0.79	0.66	0.45	-	0.80	0.67	0.47	-	0.83	0.69	0.48	-	0.86	0.72	0.50	-	0.87	0.73	0.50	-	0.87	0.73	0.50	-	0.87	0.73	0.50	-				
	ΔT	17	14	11	-	17	14	11	-	17	14	11	-	17	15	11	-	17	14	11	-	16	13	10	-	16	13	10	-	16	13	10	-				
	kW	2.47	2.52	2.60	-	2.65	2.70	2.79	-	2.81	2.86	2.95	-	2.95	3.01	3.10	-	3.06	3.13	3.23	-	3.16	3.23	3.33	-	3.16	3.23	3.33	-	3.16	3.23	3.33	-				
	Amps	9.2	9.4	9.7	-	9.9	10.1	10.5	-	10.7	11.0	11.3	-	11.5	11.7	12.1	-	12.2	12.5	12.9	-	12.9	13.2	13.6	-	12.9	13.2	13.6	-	12.9	13.2	13.6	-				
	HI PR	143	154	163	-	161	173	183	-	183	197	208	-	208	224	236	-	234	252	266	-	259	278	294	-	259	278	294	-	259	278	294	-				
	LO PR	65	69	76	-	69	73	80	-	72	76	83	-	75	80	87	-	79	84	91	-	81	87	95	-	81	87	95	-	81	87	95	-				
	MBh	33.3	34.5	37.8	-	32.5	33.7	36.9	-	31.7	32.9	36.1	-	31.0	32.1	35.2	-	29.4	30.5	33.4	-	27.3	28.3	31.0	-	27.3	28.3	31.0	-	27.3	28.3	31.0	-				
	S/T	0.73	0.61	0.42	-	0.75	0.63	0.43	-	0.77	0.64	0.45	-	0.80	0.66	0.46	-	0.83	0.69	0.48	-	0.83	0.70	0.48	-	0.83	0.70	0.48	-	0.83	0.70	0.48	-				
	ΔT	17	15	11	-	18	15	12	-	18	15	12	-	18	15	12	-	18	15	12	-	16	14	11	-	16	14	11	-	16	14	11	-				
75	kW	2.46	2.51	2.58	-	2.64	2.69	2.77	-	2.79	2.85	2.94	-	2.93	2.99	3.08	-	3.05	3.11	3.21	-	3.15	3.21	3.32	-	3.15	3.21	3.32	-	3.15	3.21	3.32	-				
	Amps	9.1	9.3	9.6	-	9.8	10.1	10.4	-	10.7	10.9	11.3	-	11.4	11.7	12.0	-	12.1	12.4	12.8	-	12.8	13.1	13.6	-	12.8	13.1	13.6	-	12.8	13.1	13.6	-				
	HI PR	142	153	162	-	159	172	181	-	181	195	206	-	207	222	235	-	232	250	264	-	257	276	292	-	257	276	292	-	257	276	292	-				
	LO PR	65	69	75	-	68	73	79	-	71	76	82	-	75	79	87	-	78	83	91	-	81	86	94	-	81	86	94	-	81	86	94	-				
	MBh	31.6	32.8	35.9	-	30.9	32.0	35.1	-	30.2	31.3	34.3	-	29.4	30.5	33.4	-	28.0	29.0	31.7	-	25.9	26.8	29.4	-	25.9	26.8	29.4	-	25.9	26.8	29.4	-				
	S/T	0.69	0.58	0.40	-	0.72	0.60	0.42	-	0.74	0.62	0.43	-	0.76	0.64	0.44	-	0.79	0.66	0.46	-	0.80	0.67	0.46	-	0.80	0.67	0.46	-	0.80	0.67	0.46	-				
	ΔT	18	16	12	-	18	16	12	-	18	16	12	-	18	16	12	-	18	16	12	-	17	15	11	-	17	15	11	-	17	15	11	-				
	kW	2.42	2.47	2.54	-	2.60	2.65	2.73	-	2.75	2.81	2.89	-	2.88	2.94	3.03	-	3.00	3.06	3.16	-	3.10	3.16	3.26	-	3.10	3.16	3.26	-	3.10	3.16	3.26	-				
	Amps	9.0	9.2	9.5	-	9.7	9.9	10.2	-	10.5	10.7	11.1	-	11.2	11.4	11.8	-	11.9	12.2	12.6	-	12.6	12.9	13.3	-	12.6	12.9	13.3	-	12.6	12.9	13.3	-				
	HI PR	139	150	158	-	156	168	178	-	178	191	202	-	202	218	230	-	228	245	259	-	252	271	286	-	252	271	286	-	252	271	286	-				
LO PR	63	67	74	-	67	71	78	-	70	74	81	-	73	78	85	-	77	82	89	-	79	84	92	-	79	84	92	-	79	84	92	-					

1425	MBh	34.37	35.39	38.30	41.11	33.57	34.56	37.41	40.15	32.77	33.74	36.52	39.20	31.97	32.92	35.63	38.24	30.37	31.27	33.85	36.33	28.14	28.97	31.36	33.65	28.14	28.97	31.36	33.65	28.14	28.97	31.36	33.65
	S/T	0.86	0.77	0.58	0.37	0.89	0.80	0.60	0.39	0.91	0.82	0.62	0.40	0.94	0.84	0.64	0.41	0.98	0.88	0.66	0.43	0.99	0.88	0.67	0.43	0.99	0.88	0.67	0.43	0.99	0.88	0.67	0.43
	ΔT	19	18	14	10	19	18	15	10	19	18	15	10	19	18	15	10	19	18	14	10	18	17	14	9	18	17	14	9	18	17	14	9
	kW	2.49	2.54	2.62	2.69	2.67	2.72	2.81	2.89	2.83	2.89	2.98	3.07	2.97	3.03	3.13	3.23	3.09	3.15	3.25	3.36	3.19	3.26	3.36	3.47	3.19	3.26	3.36	3.47	3.19	3.26	3.36	3.47
	Amps	9.3	9.5	9.8	10.1	10.0	10.2	10.5	10.9	10.8	11.1	11.4	11.9	11.6	11.8	12.2	12.7	12.3	12.6	13.0	13.5	13.0	13.3	13.8	14.3	13.0	13.3	13.8	14.3	13.0	13.3	13.8	14.3
	HI PR	145	156	164	171	162	175	184	192	185	199	210	219	210	226	239	249	236	254	269	280	261	281	297	310	261	281	297	310	261	281	297	310
	LO PR	66	70	76	81	70	74	81	86	72	77	84	89	76	81	88	94	80	85	92	98	82	88	96	102	82	88	96	102	82	88	96	102
	MBh	33.9	34.9	37.7	40.5	33.1	34.1	36.9	39.6	32.3	33.2	36.0	38.6	31.5	32.4	35.1	37.7	29.9	30.8	33.3	35.8	27.7	28.5	30.9	33.2	27.7	28.5	30.9	33.2	27.7	28.5	30.9	33.2
	S/T	0.82	0.74	0.56	0.36	0.85	0.76	0.58	0.37	0.88	0.78	0.59	0.38	0.90	0.81	0.61	0.39	0.94	0.84	0.64	0.41	0.95	0.85	0.64	0.41	0.95	0.85	0.64	0.41	0.95	0.85	0.64	0.41
	ΔT	20	19	15	10	20	19	15	11	20	19	15	11	21	19	15	11	20	19	15	11	19	17	14	10	19	17	14	10	19	17	14	10
1275	kW	2.48	2.53	2.60	2.68	2.66	2.71	2.79	2.88	2.81	2.87	2.96	3.05	2.95	3.01	3.11	3.21	3.07	3.14	3.23	3.34	3.17	3.24	3.34	3.45	3.17	3.24	3.34	3.45	3.17	3.24	3.34	3.45
	Amps	9.2	9.4	9.7	10.1	9.9	10.2	10.5	10.9	10.8	11.0	11.4	11.8	11.5	11.8	12.1	12.6	12.2	12.5	12.9	13.4	12.9	13.2	13.7	14.2	12.9	13.2	13.7	14.2	12.9	13.2	13.7	14.2
	HI PR	144	155	163	170	161	173	183	191	183	197	208	217	209	225	237	247	235	253	267	278	259	279	295	307	259	279	295	307	259	279	295	307
	LO PR	65	70	76	81	69	73	80	85	72	76	83	89	75	80	88	93	79	84	92	98	82	87	95	101	82	87	95	101	82	87	95	101
	MBh	32.2	33.1	35.9	38.5	31.4	32.4	35.0	37.6	30.7	31.6	34.2	36.7	29.9	30.81	33.3	35.8	28.4	29.3	31.7	34.0	26.3	27.1	29.3	31.5	26.3	27.1	29.3	31.5	26.3	27.1	29.3	31.5
	S/T	0.79	0.71	0.53	0.34	0.82	0.73	0.55	0.36	0.84	0.75	0.57	0.37	0.87	0.77	0.59	0.38	0.90	0.80	0.61	0.39	0.91	0.81	0.61	0.39	0.91	0.81	0.61	0.39	0.91	0.81	0.61	0.39
	ΔT	21	19	16	11	21	19	16	11	21	19	16	11	21	20	16	11	21	20	16	11	20	18	15	10	20	18	15	10	20	18	15	10
	kW	2.44	2.49	2.56	2.64	2.62	2.67	2.75	2.83	2.77	2.83	2.91	3.00	2.91	2.97	3.06	3.16	3.02	3.09	3.18	3.28	3.12	3.19	3.29	3.39	3.12	3.19	3.29	3.39	3.12	3.19	3.29	3.39
	Amps	9.0	9.2	9.5	9.9	9.7	10.0	10.3	10.7	10.6	10.8	11.2	11.6	11.3	11.5	11.9	12.4	12.0	12.3	12.7	13.2	12.7	13.0	13.4	13.9	12.7	13.0	13.4	13.9	12.7	13.0	13.4	13.9

EXPANDED COOLING DATA — VSH130361A*** (CONT.)

		Outdoor Ambient Temperature																																			
		65°F						75°F						85°F						95°F						105°F						115°F					
IDB	Airflow	59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71				
80	MBh	34.98	35.75	38.19	40.82	34.17	34.91	37.30	39.88	33.35	34.08	36.41	38.93	32.54	33.25	35.53	37.98	30.91	31.59	33.75	36.08	28.64	29.26	31.26	33.42												
	S/T	0.94	0.89	0.72	0.54	0.98	0.92	0.75	0.56	1.00	0.94	0.77	0.57	1.00	0.97	0.79	0.59	1.00	1.00	0.82	0.61	1.00	1.00	0.83	0.62												
	ΔT	21	20	18	14	22	21	18	14	22	21	18	14	21	21	18	14	20	20	18	14	18	19	17	13												
	kW	2.51	2.56	2.64	2.72	2.69	2.75	2.83	2.92	2.85	2.91	3.00	3.09	2.99	3.06	3.15	3.25	3.11	3.18	3.28	3.38	3.22	3.28	3.39	3.50												
	Amps	9.3	9.6	9.9	10.2	10.1	10.3	10.6	11.0	10.9	11.2	11.6	12.0	11.7	11.9	12.3	12.8	12.4	12.7	13.1	13.6	13.1	13.4	13.9	14.4												
	HI PR	146	157	166	173	164	176	186	194	186	201	212	221	212	228	241	252	239	257	271	283	264	284	300	313												
	LO PR	66	71	77	82	70	75	82	87	73	78	85	90	77	82	89	95	80	85	93	99	83	88	97	103												
	MBh	34.5	35.2	37.6	40.2	33.7	34.4	36.8	39.3	32.9	33.6	35.9	38.4	32.1	32.8	35.0	37.4	30.5	31.1	33.3	35.5	28.2	28.8	30.8	32.9												
	S/T	0.90	0.85	0.69	0.52	0.94	0.88	0.72	0.53	0.96	0.90	0.73	0.55	0.99	0.93	0.76	0.57	1.00	0.97	0.79	0.59	1.00	0.97	0.79	0.59												
	ΔT	22	22	19	15	23	22	19	15	23	22	19	15	23	22	19	15	22	22	19	15	20	20	18	14												
1275	kW	2.50	2.55	2.62	2.70	2.68	2.73	2.81	2.90	2.84	2.89	2.98	3.08	2.98	3.04	3.13	3.23	3.10	3.16	3.26	3.37	3.20	3.27	3.37	3.48												
Amps	9.3	9.5	9.8	10.2	10.0	10.2	10.6	11.0	10.9	11.1	11.5	11.9	11.6	11.9	12.3	12.7	12.3	12.6	13.0	13.5	13.0	13.4	13.8	14.3													
HI PR	145	156	165	172	163	175	185	193	185	199	210	219	211	227	240	250	237	255	270	281	262	282	298	311													
LO PR	66	70	77	82	70	74	81	86	72	77	84	90	76	81	88	94	80	85	93	99	83	88	96	102													
1125	MBh	32.7	33.5	35.7	38.2	32.0	32.7	34.9	37.3	31.2	31.9	34.1	36.4	30.5	31.1	33.3	35.5	28.9	29.6	31.6	33.8	26.8	27.4	29.3	31.3												
	S/T	0.87	0.81	0.66	0.49	0.90	0.84	0.69	0.51	0.92	0.86	0.70	0.53	0.95	0.89	0.73	0.54	0.99	0.92	0.75	0.56	0.99	0.93	0.76	0.57												
	ΔT	23	22	19	15	23	22	20	16	23	23	20	16	24	23	20	16	23	22	19	16	22	21	18	14												
	kW	2.46	2.51	2.58	2.66	2.64	2.69	2.77	2.86	2.79	2.85	2.94	3.03	2.93	2.99	3.08	3.18	3.05	3.11	3.21	3.31	3.15	3.21	3.32	3.42												
	Amps	9.1	9.3	9.6	10.0	9.8	10.1	10.4	10.8	10.7	10.9	11.3	11.7	11.4	11.7	12.0	12.5	12.1	12.4	12.8	13.3	12.8	13.1	13.6	14.1												
	HI PR	142	153	162	168	159	172	181	189	181	195	206	215	207	222	235	245	232	250	264	275	257	276	292	304												
	LO PR	65	69	75	80	68	73	79	85	71	76	82	88	75	79	87	92	78	83	91	97	81	86	94	100												

1425	MBh	35.59	36.28	38.00	40.54	34.76	35.44	37.11	39.60	33.94	34.59	36.23	38.65	33.11	33.75	35.35	37.71	31.45	32.06	33.58	35.82	29.14	29.70	31.11	33.19
	S/T	0.99	0.96	0.86	0.70	1.00	0.99	0.89	0.72	1.00	1.00	0.92	0.74	1.00	1.00	0.95	0.77	1.00	1.00	0.98	0.80	1.00	1.00	0.99	0.80
	ΔT	23	22	21	18	22	23	21	19	22	22	21	19	21	22	22	19	20	21	21	18	19	19	20	17
	kW	2.53	2.58	2.66	2.74	2.71	2.77	2.85	2.94	2.87	2.93	3.02	3.12	3.02	3.08	3.18	3.28	3.14	3.20	3.31	3.41	3.24	3.31	3.42	3.53
	Amps	9.4	9.6	9.9	10.3	10.2	10.4	10.7	11.1	11.0	11.3	11.7	12.1	11.8	12.1	12.4	12.9	12.5	12.8	13.2	13.7	13.2	13.6	14.0	14.5
	HI PR	148	159	168	175	166	178	188	196	188	203	214	223	214	231	244	254	241	260	274	286	267	287	303	316
	LO PR	67	71	78	83	71	75	82	88	74	78	86	91	77	82	90	96	81	86	94	100	84	89	97	104
	MBh	35.1	35.7	37.4	39.9	34.3	34.9	36.6	39.0	33.4	34.1	35.7	38.1	32.6	33.3	34.8	37.2	31.0	31.6	33.1	35.3	28.7	29.3	30.6	32.7
	S/T	0.95	0.91	0.83	0.67	0.98	0.95	0.86	0.69	1.00	0.97	0.88	0.71	1.00	1.00	0.91	0.73	1.00	1.00	0.94	0.76	1.00	1.00	0.95	0.77
1275	ΔT	24	24	22	19	24	24	23	20	24	24	23	20	24	24	23	20	22	23	22	19	21	21	18	
	kW	2.52	2.57	2.64	2.72	2.70	2.75	2.84	2.92	2.86	2.92	3.01	3.10	3.00	3.06	3.16	3.26	3.12	3.19	3.29	3.39	3.22	3.29	3.40	3.51
	Amps	9.4	9.6	9.9	10.2	10.1	10.3	10.7	11.1	11.0	11.2	11.6	12.0	11.7	12.0	12.4	12.8	12.4	12.7	13.2	13.6	13.2	13.5	13.9	14.5
	HI PR	146	158	166	174	164	177	187	195	187	201	212	222	213	229	242	252	240	258	272	284	265	285	301	314
	LO PR	67	71	77	82	70	75	82	87	73	78	85	91	77	82	89	95	81	86	94	100	83	89	97	103
	MBh	33.3	34.0	35.6	37.9	32.5	33.2	34.7	37.1	31.8	32.4	33.9	36.2	31.0	31.6	33.1	35.3	29.4	30.0	31.4	33.5	27.3	27.8	29.1	31.1
	S/T	0.91	0.88	0.79	0.64	0.94	0.91	0.82	0.66	0.96	0.93	0.84	0.68	1.00	0.96	0.87	0.70	1.00	1.00	0.90	0.73	1.00	1.00	0.91	0.74
	ΔT	25	24	23	20	25	25	23	20	25	25	23	20	25	25	23	20	24	24	23	20	22	23	22	19
	1125	kW	2.48	2.53	2.60	2.68	2.66	2.71	2.79	2.88	2.81	2.87	2.96	3.05	2.95	3.01	3.11	3.21	3.07	3.14	3.23	3.34	3.17	3.24	3.34
Amps		9.2	9.4	9.7	10.1	9.9	10.2	10.5	10.9	10.8	11.0	11.4	11.8	11.5	11.8	12.1	12.6	12.2	12.5	12.9	13.4	12.9	13.2	13.7	14.2
HI PR		144	154	163	170	161	173	183	191	183	197	208	217	209	225	237	247	235	253	267	278	259	279	295	307
LO PR		65	69	76	81	69	73	80	85	72	76	83	89	75	80	88	93	79	84	92	98	82	87	95	101

EXPANDED COOLING DATA — VSH130421A***

		Outdoor Ambient Temperature																																			
		65°F						75°F						85°F						95°F						105°F						115°F					
IDB	Airflow	59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71								
70	MBh	39.2	40.6	44.5	-	38.3	39.7	43.5	-	37.4	38.7	42.4	-	36.5	37.8	41.4	-	34.6	35.9	39.3	-	32.1	33.3	36.4	-	32.1	33.3	36.4	-								
	S/T	0.77	0.64	0.44	-	0.79	0.66	0.46	-	0.81	0.68	0.47	-	0.84	0.70	0.49	-	0.87	0.73	0.50	-	0.88	0.73	0.51	-	0.88	0.73	0.51	-								
	ΔT	16	14	11	-	17	14	11	-	17	14	11	-	17	14	11	-	16	14	11	-	15	13	10	-	15	13	10	-								
	kW	2.84	2.90	2.98	-	3.05	3.11	3.20	-	3.22	3.29	3.39	-	3.38	3.45	3.56	-	3.51	3.59	3.70	-	3.63	3.70	3.82	-	3.63	3.70	3.82	-								
	Amps	10.6	10.8	11.2	-	11.4	11.7	12.1	-	12.4	12.7	13.1	-	13.2	13.6	14.0	-	14.1	14.4	14.9	-	14.9	15.3	15.8	-	14.9	15.3	15.8	-								
	HI PR	137	148	156	-	154	166	175	-	175	188	199	-	199	215	227	-	224	241	255	-	248	267	282	-	248	267	282	-								
	LO PR	60	64	70	-	64	68	74	-	66	70	77	-	70	74	81	-	73	78	85	-	75	80	88	-	75	80	88	-								
	MBh	38.1	39.4	43.2	-	37.2	38.5	42.2	-	36.3	37.6	41.2	-	35.4	36.7	40.2	-	33.6	34.9	38.2	-	31.2	32.3	35.4	-	31.2	32.3	35.4	-								
	S/T	0.73	0.61	0.42	-	0.76	0.63	0.44	-	0.78	0.65	0.45	-	0.80	0.67	0.46	-	0.83	0.69	0.48	-	0.84	0.70	0.49	-	0.84	0.70	0.49	-								
	ΔT	17	15	11	-	17	15	11	-	17	15	11	-	17	15	11	-	17	15	11	-	16	14	11	-	16	14	11	-								
1500	kW	2.82	2.88	2.96	-	3.02	3.08	3.17	-	3.20	3.26	3.36	-	3.35	3.42	3.53	-	3.49	3.56	3.67	-	3.60	3.68	3.79	-	3.60	3.68	3.79	-								
	Amps	10.5	10.7	11.1	-	11.3	11.6	11.9	-	12.3	12.6	13.0	-	13.1	13.4	13.9	-	13.9	14.3	14.8	-	14.8	15.1	15.6	-	14.8	15.1	15.6	-								
	HI PR	136	146	154	-	152	164	173	-	173	187	197	-	197	212	224	-	222	239	252	-	245	264	279	-	245	264	279	-								
	LO PR	60	63	69	-	63	67	73	-	66	70	76	-	69	73	80	-	72	77	84	-	75	79	87	-	75	79	87	-								
	MBh	35.1	36.4	39.9	-	34.3	35.6	39.0	-	33.5	34.7	38.0	-	32.7	33.9	37.1	-	31.0	32.2	35.2	-	28.8	29.8	32.7	-	28.8	29.8	32.7	-								
1313	S/T	0.70	0.59	0.41	-	0.73	0.61	0.42	-	0.75	0.63	0.43	-	0.77	0.65	0.45	-	0.80	0.67	0.46	-	0.81	0.68	0.47	-	0.81	0.68	0.47	-								
	ΔT	17	15	11	-	18	15	12	-	18	15	12	-	18	15	12	-	17	15	11	-	16	14	11	-	16	14	11	-								
	kW	2.76	2.82	2.90	-	2.96	3.01	3.10	-	3.13	3.19	3.28	-	3.28	3.34	3.45	-	3.40	3.47	3.58	-	3.51	3.59	3.70	-	3.51	3.59	3.70	-								
	Amps	10.2	10.4	10.8	-	11.0	11.3	11.6	-	11.9	12.2	12.6	-	12.7	13.1	13.5	-	13.6	13.9	14.4	-	14.4	14.7	15.2	-	14.4	14.7	15.2	-								
	HI PR	132	142	150	-	148	159	168	-	168	181	191	-	191	206	218	-	215	232	245	-	238	256	270	-	238	256	270	-								
LO PR	58	62	67	-	61	65	71	-	64	68	74	-	67	71	78	-	70	74	81	-	72	77	84	-	72	77	84	-									

75	1688	MBh	39.86	41.04	44.42	47.68	38.93	40.09	43.39	46.57	38.01	39.13	42.36	45.46	37.08	38.18	41.32	44.35	35.23	36.27	39.26	42.13	32.63	33.60	36.36	39.03	
		S/T	0.87	0.78	0.59	0.38	0.90	0.81	0.61	0.39	0.93	0.83	0.63	0.40	0.95	0.85	0.65	0.42	0.99	0.89	0.67	0.43	1.00	0.89	0.68	0.44	
		ΔT	19	17	14	10	19	18	14	10	19	18	14	10	19	18	15	10	19	18	14	10	18	16	13	9	
		kW	2.87	2.92	3.01	3.10	3.07	3.13	3.22	3.32	3.25	3.31	3.41	3.52	3.41	3.48	3.58	3.70	3.54	3.62	3.73	3.85	3.66	3.73	3.85	3.97	
		Amps	10.7	10.9	11.3	11.7	11.5	11.8	12.2	12.6	12.5	12.8	13.2	13.7	13.4	13.7	14.1	14.7	14.2	14.6	15.0	15.6	15.1	15.4	15.9	16.5	
		HI PR	139	149	157	164	155	167	177	184	177	190	201	210	201	217	229	239	227	244	257	269	250	269	285	297	
		LO PR	61	65	71	75	64	68	75	80	67	71	78	83	70	75	82	87	74	78	85	91	76	81	88	94	
		MBh	38.7	39.8	43.1	46.3	37.8	38.9	42.1	45.2	36.9	38.0	41.1	44.1	36.0	37.1	40.1	43.1	34.2	35.2	38.1	40.9	31.7	32.6	35.3	37.9	
	1500	S/T	0.83	0.74	0.56	0.36	0.86	0.77	0.58	0.37	0.88	0.79	0.60	0.38	0.91	0.81	0.62	0.40	0.95	0.85	0.64	0.41	0.95	0.85	0.65	0.42	
		ΔT	20	18	15	10	20	18	15	10	20	18	15	10	20	19	15	10	20	18	15	10	19	17	14	10	
		kW	2.84	2.90	2.98	3.07	3.05	3.11	3.20	3.30	3.22	3.29	3.39	3.49	3.38	3.45	3.56	3.67	3.51	3.59	3.70	3.82	3.63	3.70	3.82	3.94	
		Amps	10.6	10.8	11.2	11.6	11.4	11.7	12.1	12.5	12.4	12.7	13.1	13.6	13.2	13.6	14.0	14.5	14.1	14.4	14.9	15.5	14.9	15.3	15.8	16.4	
		HI PR	137	148	156	163	154	166	175	182	175	188	199	208	199	215	227	236	224	241	255	266	248	267	282	294	
		LO PR	60	64	70	75	64	68	74	79	66	70	77	82	70	74	81	86	73	78	85	90	75	80	88	93	
		1313	MBh	35.7	36.8	39.8	42.7	34.9	35.9	38.9	41.7	34.1	35.1	38.0	40.7	33.2	34.21	37.0	39.7	31.6	32.5	35.2	37.8	29.2	30.1	32.6	35.0
			S/T	0.80	0.72	0.54	0.35	0.83	0.74	0.56	0.36	0.85	0.76	0.58	0.37	0.88	0.79	0.59	0.38	0.91	0.82	0.62	0.40	0.92	0.82	0.62	0.40
ΔT	20		18	15	10	20	19	15	11	20	19	15	11	20	19	15	11	20	19	15	10	19	17	14	10		
kW	2.78		2.84	2.92	3.00	2.98	3.04	3.13	3.22	3.15	3.21	3.31	3.41	3.30	3.37	3.47	3.58	3.43	3.50	3.61	3.72	3.54	3.62	3.73	3.85		
Amps	10.3		10.5	10.9	11.3	11.1	11.4	11.7	12.2	12.0	12.3	12.7	13.2	12.9	13.2	13.6	14.1	13.7	14.0	14.5	15.0	14.5	14.9	15.4	15.9		
HI PR	133		143	151	158	149	161	170	177	170	183	193	201	193	208	220	229	218	234	247	258	240	259	273	285		
LO PR	58		62	68	72	62	66	72	76	64	68	75	79	67	72	78	83	71	75	82	87	73	78	85	90		

EXPANDED COOLING DATA — VSH130421A*** (CONT.)

		Outdoor Ambient Temperature																																			
		65°F						75°F						85°F						95°F						105°F						115°F					
IDB	Airflow	59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71								
80	MBh	40.57	41.46	44.29	47.35	39.63	40.49	43.26	46.24	38.68	39.53	42.23	45.14	37.74	38.56	41.20	44.04	35.85	36.64	39.14	41.84	33.21	33.94	36.26	38.76												
	S/T	0.95	0.90	0.73	0.54	1.00	0.93	0.76	0.56	1.00	0.95	0.77	0.58	1.00	1.00	0.80	0.60	1.00	1.00	0.83	0.62	1.00	1.00	0.84	0.63												
	ΔT	21	20	18	14	22	20	18	14	21	20	18	14	21	21	18	14	20	20	18	14	18	18	17	13												
	kW	2.89	2.94	3.03	3.12	3.09	3.15	3.25	3.35	3.27	3.34	3.44	3.55	3.43	3.50	3.61	3.73	3.57	3.64	3.76	3.88	3.69	3.76	3.88	4.01												
	Amps	10.7	11.0	11.4	11.8	11.6	11.9	12.3	12.7	12.6	12.9	13.3	13.8	13.5	13.8	14.3	14.8	14.3	14.7	15.2	15.8	15.2	15.6	16.1	16.7												
	HI PR	140	151	159	166	157	169	178	186	179	192	203	212	203	219	231	241	229	246	260	271	253	272	287	300												
	LO PR	62	65	71	76	65	69	75	80	68	72	78	84	71	75	82	88	74	79	86	92	77	82	89	95												
	MBh	39.4	40.2	43.0	46.0	38.5	39.3	42.0	44.9	37.6	38.4	41.0	43.8	36.6	37.4	40.0	42.8	34.8	35.6	38.0	40.6	32.2	32.9	35.2	37.6												
	S/T	0.91	0.85	0.70	0.52	0.94	0.89	0.72	0.54	0.97	0.91	0.74	0.55	1.00	0.94	0.76	0.57	1.00	0.97	0.79	0.59	1.00	0.98	0.80	0.60												
	ΔT	22	21	18	15	22	21	19	15	22	21	19	15	22	21	19	15	21	21	18	15	20	20	17	14												
kW	2.87	2.92	3.01	3.10	3.07	3.13	3.22	3.32	3.25	3.31	3.42	3.52	3.41	3.48	3.58	3.70	3.54	3.62	3.73	3.85	3.66	3.73	3.85	3.98													
Amps	10.7	10.9	11.3	11.7	11.5	11.8	12.2	12.6	12.5	12.8	13.2	13.7	13.4	13.7	14.1	14.7	14.2	14.6	15.0	15.6	15.1	15.4	15.9	16.5													
HI PR	139	149	157	164	156	167	177	184	177	190	201	210	201	217	229	239	227	244	258	269	250	269	285	297													
LO PR	61	65	71	75	64	68	75	80	67	71	78	83	70	75	82	87	74	78	85	91	76	81	88	94													
1313	MBh	36.4	37.1	39.7	42.4	35.5	36.3	38.8	41.4	34.7	35.4	37.8	40.5	33.8	34.6	36.9	39.5	32.1	32.8	35.1	37.5	29.8	30.4	32.5	34.7												
	S/T	0.88	0.82	0.67	0.50	0.91	0.85	0.69	0.52	0.93	0.88	0.71	0.53	0.96	0.90	0.74	0.55	1.00	0.94	0.76	0.57	1.01	0.95	0.77	0.58												
	ΔT	22	21	19	15	23	22	19	15	23	22	19	15	23	22	19	15	22	22	19	15	21	20	18	14												
	kW	2.80	2.86	2.94	3.03	3.00	3.06	3.15	3.25	3.17	3.24	3.34	3.44	3.33	3.40	3.50	3.61	3.46	3.53	3.64	3.75	3.57	3.65	3.76	3.88												
	Amps	10.4	10.6	11.0	11.4	11.2	11.5	11.8	12.3	12.2	12.4	12.9	13.3	13.0	13.3	13.7	14.3	13.8	14.2	14.6	15.2	14.6	15.0	15.5	16.1												
	HI PR	134	145	153	159	151	162	171	179	172	185	195	203	195	210	222	232	220	237	250	261	243	261	276	288												
	LO PR	59	63	69	73	62	66	72	77	65	69	75	80	68	72	79	84	71	76	83	88	74	79	86	91												

85	1688	MBh	41.28	42.08	44.07	47.01	40.32	41.10	43.04	45.92	39.36	40.12	42.02	44.83	38.40	39.14	40.99	43.73	36.48	37.18	38.94	41.55	33.79	34.44	36.07	38.49
		S/T	1.00	0.97	0.87	0.71	1.00	1.00	0.90	0.73	1.00	1.00	0.93	0.75	1.00	1.00	0.96	0.78	1.00	1.00	0.99	0.81	1.00	1.00	1.00	0.81
		ΔT	22	22	21	18	22	22	21	18	21	22	21	18	21	21	21	18	20	20	21	18	18	19	20	17
		kW	2.91	2.96	3.05	3.14	3.12	3.18	3.27	3.37	3.30	3.37	3.47	3.58	3.46	3.53	3.64	3.76	3.60	3.67	3.79	3.91	3.72	3.79	3.91	4.04
		Amps	10.8	11.1	11.5	11.9	11.7	12.0	12.4	12.9	12.7	13.0	13.5	14.0	13.6	13.9	14.4	14.9	14.5	14.8	15.3	15.9	15.3	15.7	16.2	16.9
		HI PR	141	152	161	168	159	171	180	188	180	194	205	214	205	221	234	244	231	249	263	274	255	275	290	303
		LO PR	62	66	72	77	66	70	76	81	68	73	79	84	72	76	83	89	75	80	87	93	78	83	90	96
	1500	MBh	40.1	40.9	42.8	45.6	39.1	39.9	41.8	44.6	38.2	39.0	40.8	43.5	37.3	38.0	39.8	42.5	35.4	36.1	37.8	40.3	32.8	33.4	35.0	37.4
		S/T	0.95	0.92	0.83	0.67	0.99	0.95	0.86	0.70	1.00	0.98	0.88	0.72	1.00	1.00	0.91	0.74	1.00	1.00	0.95	0.77	1.00	1.00	0.95	0.77
		ΔT	23	23	22	19	24	23	22	19	23	23	22	19	23	23	22	19	22	22	22	19	20	20	20	18
		kW	2.89	2.94	3.03	3.12	3.09	3.15	3.25	3.35	3.27	3.34	3.44	3.55	3.43	3.50	3.61	3.73	3.57	3.64	3.76	3.88	3.69	3.76	3.88	4.01
		Amps	10.7	11.0	11.4	11.8	11.6	11.9	12.3	12.7	12.6	12.9	13.3	13.8	13.5	13.8	14.3	14.8	14.3	14.7	15.2	15.8	15.2	15.6	16.1	16.7
		HI PR	140	151	159	166	157	169	178	186	179	192	203	212	203	219	231	241	229	246	260	271	253	272	287	300
		LO PR	62	65	71	76	65	69	75	80	68	72	78	84	71	75	82	88	74	79	86	92	77	82	89	95
1313	MBh	37.0	37.7	39.5	42.1	36.1	36.8	38.6	41.2	35.3	36.0	37.7	40.2	34.4	35.1	36.7	39.2	32.7	33.3	34.9	37.2	30.3	30.9	32.3	34.5	
	S/T	0.92	0.89	0.80	0.65	0.95	0.92	0.83	0.67	0.98	0.94	0.85	0.69	1.00	0.97	0.88	0.71	1.00	1.00	0.91	0.74	1.00	1.00	0.92	0.75	
	ΔT	24	23	22	19	24	24	22	19	24	24	22	19	24	24	23	20	23	23	22	19	21	22	21	18	
	kW	2.82	2.88	2.96	3.05	3.02	3.08	3.17	3.27	3.20	3.26	3.36	3.47	3.35	3.42	3.53	3.64	3.49	3.56	3.67	3.78	3.60	3.67	3.79	3.91	
	Amps	10.5	10.7	11.1	11.5	11.3	11.6	11.9	12.4	12.3	12.6	13.0	13.5	13.1	13.4	13.9	14.4	13.9	14.3	14.8	15.3	14.8	15.1	15.6	16.2	
	HI PR	136	146	154	161	152	164	173	181	173	186	197	205	197	212	224	234	222	239	252	263	245	264	279	291	
	LO PR	60	63	69	74	63	67	73	78	66	70	76	81	69	73	80	85	72	77	84	89	75	79	87	92	

IDB: Entering Indoor Dry Bulb Temperature kW=Total system power Shaded area reflects ARI conditions Amps = outdoor unit amps (comp.+fan)
High and low pressures

EXPANDED COOLING DATA — VSH130481A***

		Outdoor Ambient Temperature																																			
		65°F						75°F						85°F						95°F						105°F						115°F					
IDB	Airflow	59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71								
70	1800	MBh	44.1	45.7	50.1	-	43.1	44.6	48.9	-	42.0	43.6	47.7	-	41.0	42.5	46.6	-	39.0	40.4	44.3	-	36.1	37.4	41.0	-	36.1	37.4	41.0	-							
		S/T	0.76	0.63	0.44	-	0.79	0.66	0.46	-	0.81	0.67	0.47	-	0.83	0.70	0.48	-	0.86	0.72	0.50	-	0.87	0.73	0.50	-	0.87	0.73	0.50	-							
		ΔT	17	15	11	-	17	15	11	-	17	15	11	-	17	15	11	-	17	15	11	-	16	14	11	-	16	14	11	-							
		kW	3.22	3.28	3.37	-	3.44	3.51	3.61	-	3.64	3.71	3.82	-	3.81	3.89	4.01	-	3.96	4.04	4.17	-	4.09	4.17	4.30	-	4.09	4.17	4.30	-							
		Amps	12.1	12.4	12.8	-	13.0	13.4	13.8	-	14.2	14.5	15.0	-	15.1	15.5	16.0	-	16.1	16.5	17.0	-	17.1	17.5	18.1	-	17.1	17.5	18.1	-							
	1600	HI PR	142	153	161	-	159	172	181	-	181	195	206	-	207	222	235	-	232	250	264	-	257	276	292	-	257	276	292	-							
		LO PR	64	68	74	-	67	72	78	-	70	75	81	-	74	78	86	-	77	82	90	-	80	85	93	-	80	85	93	-							
		MBh	42.8	44.4	48.6	-	41.8	43.3	47.5	-	40.8	42.3	46.4	-	39.8	41.3	45.2	-	37.8	39.2	43.0	-	35.0	36.3	39.8	-	35.0	36.3	39.8	-							
		S/T	0.72	0.60	0.42	-	0.75	0.63	0.43	-	0.77	0.64	0.45	-	0.79	0.66	0.46	-	0.82	0.69	0.48	-	0.83	0.69	0.48	-	0.83	0.69	0.48	-							
		ΔT	18	15	12	-	18	16	12	-	18	16	12	-	18	16	12	-	18	16	12	-	17	14	11	-	17	14	11	-							
1400	kW	3.20	3.26	3.35	-	3.42	3.48	3.58	-	3.61	3.68	3.79	-	3.78	3.86	3.98	-	3.93	4.01	4.13	-	4.06	4.14	4.27	-	4.06	4.14	4.27	-								
	Amps	12.0	12.3	12.7	-	12.9	13.2	13.7	-	14.0	14.4	14.8	-	15.0	15.4	15.9	-	16.0	16.3	16.9	-	16.9	17.3	17.9	-	16.9	17.3	17.9	-								
	HI PR	141	151	160	-	158	170	179	-	180	193	204	-	205	220	232	-	230	248	261	-	254	274	289	-	254	274	289	-								
	LO PR	63	67	73	-	67	71	78	-	69	74	81	-	73	78	85	-	76	81	89	-	79	84	92	-	79	84	92	-								
	MBh	39.5	41.0	44.9	-	38.6	40.0	43.8	-	37.7	39.1	42.8	-	36.8	38.1	41.7	-	34.9	36.2	39.7	-	32.3	33.5	36.7	-	32.3	33.5	36.7	-								

1800	MBh	44.84	46.17	49.98	53.64	43.80	45.10	48.81	52.39	42.76	44.02	47.65	51.14	41.72	42.95	46.49	49.89	39.63	40.80	44.16	47.40	36.71	37.80	40.91	43.91
	S/T	0.86	0.77	0.58	0.38	0.89	0.80	0.61	0.39	0.92	0.82	0.62	0.40	0.95	0.85	0.64	0.41	0.98	0.88	0.66	0.43	0.99	0.89	0.67	0.43
	ΔT	20	18	15	10	20	18	15	10	20	18	15	10	20	19	15	11	20	18	15	10	19	17	14	10
	kW	3.24	3.30	3.40	3.50	3.47	3.54	3.64	3.75	3.67	3.74	3.85	3.97	3.84	3.92	4.04	4.16	3.99	4.07	4.20	4.33	4.12	4.21	4.34	4.47
	Amps	12.2	12.5	12.9	13.4	13.2	13.5	13.9	14.4	14.3	14.6	15.1	15.7	15.3	15.6	16.2	16.8	16.2	16.6	17.2	17.9	17.2	17.6	18.2	18.9
	HI PR	144	154	163	170	161	173	183	191	183	197	208	217	209	225	237	247	235	253	267	278	259	279	295	307
	LO PR	65	69	75	80	68	73	79	84	71	75	82	88	74	79	86	92	78	83	91	96	81	86	94	100
1600	MBh	43.5	44.8	48.5	52.1	42.5	43.8	47.4	50.9	41.5	42.7	46.3	49.7	40.5	41.7	45.1	48.4	38.5	39.6	42.9	46.0	35.6	36.7	39.7	42.6
	S/T	0.82	0.74	0.56	0.36	0.85	0.76	0.58	0.37	0.87	0.78	0.59	0.38	0.90	0.81	0.61	0.39	0.94	0.84	0.63	0.41	0.94	0.84	0.64	0.41
	ΔT	21	19	16	11	21	19	16	11	21	19	16	11	21	19	16	11	21	19	16	11	19	18	15	10
	kW	3.22	3.28	3.37	3.47	3.44	3.51	3.61	3.72	3.64	3.71	3.82	3.94	3.81	3.89	4.01	4.13	3.96	4.04	4.17	4.30	4.09	4.17	4.30	4.44
	Amps	12.1	12.4	12.8	13.2	13.0	13.4	13.8	14.3	14.2	14.5	15.0	15.5	15.1	15.5	16.0	16.6	16.1	16.5	17.0	17.7	17.1	17.5	18.1	18.7
	HI PR	142	153	162	168	159	172	181	189	181	195	206	215	207	222	235	245	232	250	264	275	257	276	292	304
	LO PR	64	68	74	79	68	72	78	83	70	75	81	87	74	78	86	91	77	82	90	96	80	85	93	99
1400	MBh	40.2	41.4	44.8	48.1	39.3	40.4	43.7	46.9	38.3	39.5	42.7	45.8	37.4	38.49	41.7	44.7	35.5	36.6	39.6	42.5	32.9	33.9	36.7	39.3
	S/T	0.79	0.71	0.54	0.35	0.82	0.74	0.56	0.36	0.84	0.75	0.57	0.37	0.87	0.78	0.59	0.38	0.90	0.81	0.61	0.39	0.91	0.81	0.62	0.40
	ΔT	21	19	16	11	21	20	16	11	21	20	16	11	21	20	16	11	21	19	16	11	20	18	15	10
	kW	3.15	3.21	3.30	3.40	3.37	3.43	3.53	3.64	3.56	3.63	3.74	3.85	3.73	3.80	3.92	4.04	3.87	3.95	4.07	4.20	3.99	4.08	4.20	4.33
	Amps	11.8	12.0	12.4	12.9	12.7	13.0	13.4	13.9	13.8	14.1	14.6	15.1	14.7	15.1	15.6	16.2	15.7	16.0	16.6	17.2	16.6	17.0	17.6	18.2
	HI PR	138	148	157	163	155	166	176	183	176	189	200	209	200	216	228	238	225	243	256	267	249	268	283	295
	LO PR	62	66	72	77	65	70	76	81	68	72	79	84	71	76	83	88	75	80	87	93	77	82	90	96

EXPANDED COOLING DATA — VSH130481A*** (CONT.)

		Outdoor Ambient Temperature																							
		65°F				75°F				85°F				95°F				105°F				115°F			
IDB	Airflow	59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71
80	MBh	45.64	46.64	49.83	53.26	44.58	45.55	48.67	52.03	43.52	44.47	47.51	50.79	42.46	43.38	46.35	49.55	40.33	41.21	44.03	47.07	37.36	38.18	40.79	43.60
	S/T	0.95	0.89	0.72	0.54	1.00	0.92	0.75	0.56	1.00	0.94	0.77	0.57	1.00	1.00	0.79	0.59	1.00	1.00	0.82	0.61	1.00	1.00	0.83	0.62
	ΔT	22	21	18	15	23	21	19	15	22	21	19	15	22	21	19	15	21	19	15	15	19	19	17	14
	kW	3.27	3.33	3.42	3.52	3.49	3.56	3.67	3.78	3.69	3.77	3.88	4.00	3.87	3.95	4.07	4.20	4.02	4.11	4.23	4.37	4.15	4.24	4.37	4.51
	Amps	12.3	12.6	13.0	13.5	13.3	13.6	14.0	14.6	14.4	14.8	15.3	15.8	15.4	15.8	16.3	16.9	16.4	16.8	17.4	18.0	17.4	17.8	18.4	19.1
	Hi PR	145	156	165	172	163	175	185	193	185	199	210	219	211	227	240	250	237	255	269	281	262	282	298	311
	LO PR	65	69	76	81	69	73	80	85	72	76	83	89	75	80	87	93	79	84	92	97	81	87	95	101
	MBh	44.3	45.3	48.4	51.7	43.3	44.2	47.3	50.5	42.3	43.2	46.1	49.3	41.2	42.1	45.0	48.1	39.2	40.0	42.8	45.7	36.3	37.1	39.6	42.3
	S/T	0.90	0.85	0.69	0.51	0.94	0.88	0.71	0.53	0.96	0.90	0.73	0.55	0.99	0.93	0.76	0.56	1.00	0.96	0.78	0.59	1.00	0.97	0.79	0.59
	ΔT	23	22	19	15	23	22	19	15	23	22	19	16	23	22	19	16	23	22	19	15	21	21	18	14
1600	kW	3.24	3.30	3.40	3.50	3.47	3.54	3.64	3.75	3.67	3.74	3.85	3.97	3.84	3.92	4.04	4.17	3.99	4.07	4.20	4.33	4.12	4.21	4.34	4.47
	Amps	12.2	12.5	12.9	13.4	13.2	13.5	13.9	14.4	14.3	14.6	15.1	15.7	15.3	15.6	16.1	16.8	16.3	16.6	17.2	17.9	17.2	17.6	18.2	18.9
	Hi PR	144	155	163	170	161	173	183	191	183	197	208	217	209	225	239	247	235	253	267	278	259	279	295	307
	LO PR	65	69	75	80	68	73	79	84	71	75	82	88	74	79	82	89	78	83	91	96	81	86	94	100
	MBh	40.9	41.8	44.7	47.7	39.9	40.8	43.6	46.6	39.0	39.8	42.6	45.5	38.0	38.9	41.5	44.4	36.1	36.9	39.5	42.2	33.5	34.2	36.6	39.1
	S/T	0.87	0.82	0.66	0.50	0.90	0.85	0.69	0.51	0.92	0.87	0.71	0.53	0.95	0.90	0.73	0.54	0.99	0.93	0.76	0.57	1.00	0.94	0.76	0.57
	ΔT	23	22	19	16	24	23	20	16	24	23	20	16	24	23	20	16	24	23	20	16	22	21	18	15
	kW	3.17	3.23	3.32	3.42	3.39	3.46	3.56	3.66	3.58	3.66	3.76	3.88	3.75	3.83	3.95	4.07	3.90	3.98	4.10	4.23	4.03	4.11	4.23	4.37
	Amps	11.9	12.1	12.5	13.0	12.8	13.1	13.5	14.0	13.9	14.2	14.7	15.3	14.9	15.2	15.7	16.3	15.8	16.2	16.7	17.4	16.7	17.1	17.7	18.4
	Hi PR	139	150	158	165	156	168	178	185	178	191	202	211	202	218	230	240	228	245	259	270	252	271	286	298
	LO PR	63	67	73	77	66	70	77	82	69	73	80	85	72	77	84	89	76	81	88	94	78	83	91	97

85	MBh	46.44	47.34	49.58	52.89	45.36	46.24	48.42	51.66	44.28	45.14	47.27	50.43	43.20	44.03	46.12	49.20	41.04	41.83	43.81	46.74	38.01	38.75	40.58	43.30
	S/T	0.99	0.96	0.86	0.70	1.00	0.99	0.90	0.73	1.00	1.00	0.92	0.74	1.00	1.00	0.95	0.77	1.00	1.00	0.98	0.80	1.00	1.00	0.99	0.80
	ΔT	24	23	22	19	23	23	22	19	23	23	22	19	22	22	22	19	21	21	22	19	19	20	21	18
	kW	3.29	3.35	3.45	3.55	3.52	3.59	3.69	3.81	3.72	3.80	3.91	4.03	3.90	3.98	4.10	4.23	4.05	4.14	4.27	4.40	4.19	4.27	4.41	4.55
	Amps	12.4	12.7	13.1	13.6	13.4	13.7	14.2	14.7	14.6	14.9	15.4	16.0	15.6	15.9	16.5	17.1	16.6	17.0	17.5	18.2	17.5	18.0	18.6	19.3
	Hi PR	146	158	166	174	164	177	187	195	187	201	212	222	213	229	242	252	239	258	272	284	265	285	301	314
	LO PR	66	70	76	81	70	74	81	86	72	77	84	89	76	81	88	94	80	85	92	98	82	88	96	102
	MBh	45.1	46.0	48.1	51.4	44.0	44.9	47.0	50.2	43.0	43.8	45.9	49.0	41.9	42.8	44.8	47.8	39.8	40.6	42.5	45.4	36.9	37.6	39.4	42.0
	S/T	0.95	0.91	0.82	0.67	0.98	0.95	0.85	0.69	1.00	0.97	0.88	0.71	1.00	1.00	0.90	0.73	1.00	1.00	0.94	0.76	1.00	1.00	0.95	0.77
	ΔT	25	24	23	20	25	24	23	20	25	24	23	20	24	25	23	20	23	23	23	20	21	22	21	19
1600	kW	3.27	3.33	3.42	3.52	3.49	3.56	3.67	3.78	3.69	3.77	3.88	4.00	3.87	3.95	4.07	4.20	4.02	4.11	4.23	4.37	4.15	4.24	4.37	4.51
	Amps	12.3	12.6	13.0	13.5	13.3	13.6	14.0	14.6	14.4	14.8	15.3	15.8	15.4	15.8	16.3	16.9	16.4	16.8	17.4	18.0	17.4	17.8	18.4	19.1
	Hi PR	145	156	165	172	163	175	185	193	185	199	210	219	211	227	240	250	237	255	269	281	262	282	298	311
	LO PR	65	69	76	81	69	73	80	85	72	76	83	89	75	80	87	93	79	84	92	97	81	87	95	101
	MBh	41.6	42.4	44.4	47.4	40.6	41.4	43.4	46.3	39.7	40.4	42.4	45.2	38.7	39.5	41.3	44.1	36.8	37.5	39.3	41.9	34.1	34.7	36.4	38.8
	S/T	0.91	0.88	0.79	0.64	0.95	0.91	0.82	0.67	0.97	0.94	0.84	0.68	1.00	0.97	0.87	0.71	1.00	1.00	0.90	0.73	1.00	1.00	0.91	0.74
	ΔT	25	25	23	20	25	25	23	20	25	25	23	20	25	25	24	20	24	25	23	20	22	23	22	19
	kW	3.19	3.26	3.35	3.45	3.42	3.48	3.58	3.69	3.61	3.68	3.79	3.91	3.78	3.86	3.98	4.10	3.93	4.01	4.13	4.26	4.06	4.14	4.27	4.40
	Amps	12.0	12.3	12.6	13.1	12.9	13.2	13.7	14.2	14.0	14.4	14.8	15.4	15.0	15.4	15.9	16.5	15.9	16.3	16.9	17.5	16.9	17.3	17.9	18.6
	Hi PR	141	151	160	167	158	170	179	187	180	193	204	213	204	220	232	242	230	248	261	273	254	273	289	301
	LO PR	63	67	73	78	67	71	78	83	69	74	81	86	73	78	85	90	76	81	89	95	79	84	92	98

IDB: Entering Indoor Dry Bulb Temperature kW=Total system power Shaded area reflects ARI conditions Amps = outdoor unit amps (comp. + fan)
 High and low pressures are measured at the liquid and suction service valves. Design Subcooling 9 ±3 °F @ the liquid service valve, ARI 95 test conditions

EXPANDED COOLING DATA — VSH130601A***

		Outdoor Ambient Temperature																							
		65°F				75°F				85°F				95°F				105°F				115°F			
IDB	Airflow	59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71
70	MBh	54.4	56.4	61.8	-	53.1	55.1	60.3	-	51.9	53.7	58.9	-	50.6	52.4	57.5	-	48.1	49.8	54.6	-	44.5	46.1	50.6	-
	S/T	0.72	0.60	0.42	-	0.75	0.63	0.43	-	0.77	0.64	0.45	-	0.79	0.66	0.46	-	0.82	0.69	0.48	-	0.83	0.69	0.48	-
	ΔT	18	15	12	-	18	16	12	-	18	16	12	-	18	16	12	-	18	16	12	-	17	15	11	-
	2025	3.84	3.92	4.03	-	4.12	4.20	4.32	-	4.36	4.45	4.58	-	4.57	4.67	4.81	-	4.75	4.85	5.00	-	4.91	5.01	5.17	-
	Amps	13.8	14.1	14.6	-	14.9	15.2	15.7	-	16.2	16.6	17.1	-	17.3	17.7	18.3	-	18.4	18.8	19.5	-	19.5	20.0	20.6	-
	HI PR	140	151	159	-	157	169	179	-	179	193	204	-	204	220	232	-	229	247	261	-	254	273	288	-
	LO PR	59	63	68	-	62	66	72	-	65	69	75	-	68	72	79	-	71	76	82	-	73	78	85	-
	MBh	52.8	54.7	60.0	-	51.6	53.5	58.6	-	50.3	52.2	57.2	-	49.1	50.9	55.8	-	46.7	48.4	53.0	-	43.2	44.8	49.1	-
	S/T	0.69	0.58	0.40	-	0.72	0.60	0.41	-	0.73	0.61	0.42	-	0.76	0.63	0.44	-	0.79	0.66	0.45	-	0.79	0.66	0.46	-
	ΔT	19	16	12	-	19	16	12	-	19	16	12	-	19	16	12	-	19	16	12	-	17	15	11	-
	1800	3.81	3.89	4.00	-	4.09	4.17	4.29	-	4.32	4.41	4.55	-	4.54	4.63	4.77	-	4.72	4.81	4.96	-	4.87	4.97	5.13	-
1575	Amps	13.7	14.0	14.4	-	14.8	15.1	15.6	-	16.0	16.4	17.0	-	17.1	17.5	18.1	-	18.2	18.7	19.3	-	19.3	19.8	20.5	-
	HI PR	139	150	158	-	156	168	177	-	177	191	202	-	202	217	230	-	227	245	258	-	251	270	285	-
	LO PR	58	62	68	-	61	65	71	-	64	68	74	-	67	71	78	-	70	75	82	-	73	77	84	-
	MBh	48.7	50.5	55.3	-	47.6	49.3	54.1	-	46.5	48.2	52.8	-	45.3	47.0	51.5	-	43.1	44.6	48.9	-	39.9	41.4	45.3	-
	S/T	0.67	0.56	0.39	-	0.69	0.58	0.40	-	0.71	0.59	0.41	-	0.73	0.61	0.42	-	0.76	0.63	0.44	-	0.76	0.64	0.44	-
	ΔT	19	16	12	-	19	17	13	-	19	17	13	-	19	17	13	-	19	16	13	-	18	15	12	-
	1575	3.73	3.80	3.91	-	3.99	4.07	4.19	-	4.23	4.31	4.44	-	4.43	4.52	4.66	-	4.60	4.70	4.85	-	4.75	4.85	5.01	-
	Amps	13.3	13.6	14.0	-	14.4	14.7	15.2	-	15.6	16.0	16.5	-	16.7	17.1	17.6	-	17.7	18.2	18.8	-	18.8	19.2	19.9	-
	HI PR	135	145	153	-	151	163	172	-	172	185	195	-	196	211	223	-	220	237	250	-	244	262	277	-
	LO PR	56	60	66	-	60	63	69	-	62	66	72	-	65	69	76	-	68	73	79	-	71	75	82	-

75	MBh	55.31	56.94	61.64	66.15	54.02	55.62	60.20	64.61	52.73	54.30	58.77	63.08	51.45	52.97	57.34	61.54	48.88	50.32	54.47	58.46	45.27	46.61	50.46	54.15
	S/T	0.82	0.74	0.56	0.36	0.85	0.76	0.58	0.37	0.87	0.78	0.59	0.38	0.90	0.81	0.61	0.39	0.94	0.84	0.63	0.41	0.94	0.84	0.64	0.41
	ΔT	21	19	16	11	21	19	16	11	21	19	16	11	21	19	16	11	21	19	16	11	19	18	15	10
	2025	3.87	3.95	4.06	4.18	4.15	4.23	4.36	4.49	4.39	4.48	4.62	4.76	4.61	4.70	4.85	5.00	4.79	4.89	5.04	5.21	4.95	5.05	5.21	5.38
	Amps	13.9	14.2	14.7	15.2	15.0	15.4	15.9	16.5	16.3	16.7	17.3	17.9	17.4	17.9	18.5	19.2	18.6	19.0	19.7	20.4	19.7	20.2	20.8	21.6
	HI PR	142	153	161	168	159	171	181	189	181	195	206	214	206	222	234	244	232	249	263	275	256	276	291	304
	LO PR	59	63	69	73	63	67	73	78	65	69	76	81	68	73	80	85	72	76	83	89	74	79	86	92
	MBh	53.7	55.3	59.8	64.2	52.4	54.0	58.4	62.7	51.2	52.7	57.1	61.2	50.0	51.4	55.7	59.7	47.5	48.9	52.9	56.8	44.0	45.3	49.0	52.6
	S/T	0.78	0.70	0.53	0.34	0.81	0.73	0.55	0.35	0.83	0.75	0.56	0.36	0.86	0.77	0.58	0.37	0.89	0.80	0.60	0.39	0.90	0.81	0.61	0.39
	ΔT	22	20	16	11	22	20	16	11	22	20	16	11	22	20	17	11	22	20	16	11	20	19	15	11
	1800	3.84	3.92	4.03	4.15	4.12	4.20	4.32	4.46	4.36	4.45	4.58	4.73	4.57	4.67	4.81	4.96	4.75	4.85	5.00	5.16	4.91	5.01	5.17	5.34
	Amps	13.8	14.1	14.6	15.1	14.9	15.2	15.7	16.3	16.2	16.6	17.1	17.8	17.3	17.7	18.3	19.0	18.4	18.8	19.5	20.2	19.5	20.0	20.6	21.4
	HI PR	140	151	160	166	158	170	179	187	179	193	204	212	204	220	232	242	230	247	261	272	254	273	288	301
	LO PR	59	63	68	73	62	66	72	77	65	69	75	80	68	72	79	84	71	76	82	88	73	78	85	91
1575	MBh	49.6	51.0	55.2	59.3	48.4	49.8	53.9	57.9	47.3	48.7	52.7	56.5	46.1	47.47	51.4	55.1	43.8	45.1	48.8	52.4	40.6	41.8	45.2	48.5
	S/T	0.76	0.68	0.51	0.33	0.78	0.70	0.53	0.34	0.80	0.72	0.54	0.35	0.83	0.74	0.56	0.36	0.86	0.77	0.58	0.38	0.87	0.78	0.59	0.38
	ΔT	22	20	17	11	22	20	17	12	22	20	17	12	22	21	17	12	22	20	17	11	21	19	16	11
	1575	3.76	3.83	3.94	4.06	4.02	4.10	4.23	4.35	4.26	4.34	4.48	4.61	4.46	4.56	4.70	4.84	4.64	4.74	4.88	5.04	4.79	4.89	5.05	5.21
	Amps	13.4	13.7	14.2	14.7	14.5	14.8	15.3	15.9	15.7	16.1	16.6	17.3	16.8	17.2	17.8	18.5	17.9	18.3	18.9	19.7	19.0	19.4	20.1	20.8
	HI PR	136	147	155	161	153	164	174	181	174	187	197	206	198	213	225	235	223	240	253	264	246	265	280	292
	LO PR	57	61	66	71	60	64	70	74	63	67	73	77	66	70	76	81	69	73	80	85	71	76	83	88

IDB: Entering Indoor Dry Bulb Temperature kW=Total system power Shaded area reflects ACCA (TVA) conditions Amps = outdoor unit amps (comp.+fan)
 High and low pressures are measured at the liquid and suction service valves. Design Subcooling 9 ±3 °F @ the liquid service valve, ARI 95 test conditions

EXPANDED COOLING DATA — VSH130601A*** (CONT.)

		Outdoor Ambient Temperature																								
		65°F				75°F				85°F				95°F				105°F				115°F				
		Entering Indoor Wet Bulb Temperature																								
		59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71	
IDB	Airflow	MBh	56.29	57.52	61.45	65.69	54.98	56.18	60.02	64.16	53.67	54.84	58.59	62.64	52.36	53.51	57.17	61.11	49.74	50.83	54.31	58.05	46.08	47.09	50.31	53.78
2025		S/T	0.90	0.85	0.69	0.51	0.94	0.88	0.71	0.53	0.96	0.90	0.73	0.55	1.00	0.93	0.76	0.56	1.00	0.96	0.78	0.59	1.00	1.00	0.79	0.59
		ΔT	23	22	19	15	23	22	19	16	23	22	19	16	24	23	20	16	23	22	19	15	21	21	18	14
		kW	3.90	3.98	4.09	4.22	4.18	4.26	4.39	4.53	4.43	4.52	4.66	4.80	4.64	4.74	4.89	5.04	4.83	4.93	5.09	5.25	4.99	5.09	5.26	5.43
		Amps	14.0	14.4	14.8	15.4	15.2	15.5	16.0	16.6	16.5	16.9	17.4	18.1	17.6	18.0	18.6	19.3	18.7	19.2	19.8	20.6	19.9	20.3	21.0	21.8
		Hi PR	143	154	163	170	161	173	183	190	183	197	208	217	208	224	237	247	234	252	266	278	259	278	294	307
80		LO PR	60	64	70	74	63	67	74	78	66	70	76	81	69	74	80	86	72	77	84	90	75	80	87	93
		MBh	54.7	55.8	59.7	63.8	53.4	54.5	58.3	62.3	52.1	53.2	56.9	60.8	50.8	51.9	55.5	59.3	48.3	49.4	52.7	56.4	44.7	45.7	48.8	52.2
		S/T	0.86	0.81	0.66	0.49	0.89	0.84	0.68	0.51	0.91	0.86	0.70	0.52	0.94	0.89	0.72	0.54	0.98	0.92	0.75	0.56	0.99	0.93	0.75	0.56
		ΔT	24	23	20	16	24	23	20	16	24	23	20	16	25	23	20	16	24	23	20	16	23	22	19	15
		kW	3.87	3.95	4.06	4.19	4.15	4.23	4.36	4.49	4.39	4.48	4.62	4.76	4.61	4.70	4.85	5.00	4.79	4.89	5.04	5.21	4.95	5.05	5.21	5.38
1575		Amps	13.9	14.2	14.7	15.2	15.0	15.4	15.9	16.5	16.3	16.7	17.3	17.9	17.4	17.9	18.5	19.2	18.6	19.0	19.7	20.4	19.7	20.2	20.8	21.6
		Hi PR	142	153	161	168	159	171	181	189	181	195	206	214	206	222	234	244	232	250	263	275	256	276	291	304
		LO PR	59	63	69	73	63	67	73	78	65	69	76	81	68	73	80	85	72	76	83	89	74	79	86	92
		MBh	50.4	51.5	55.1	58.9	49.3	50.3	53.8	57.5	48.1	49.1	52.5	56.1	46.9	47.9	51.2	54.8	44.6	45.6	48.7	52.0	41.3	42.2	45.1	48.2
		S/T	0.83	0.78	0.63	0.47	0.86	0.81	0.66	0.49	0.88	0.83	0.67	0.50	0.91	0.85	0.69	0.52	0.94	0.89	0.72	0.54	0.95	0.89	0.73	0.54
		ΔT	24	23	20	16	25	24	21	16	25	24	21	16	25	24	21	17	25	24	20	16	23	22	19	15
		kW	3.79	3.86	3.97	4.09	4.05	4.13	4.26	4.39	4.29	4.38	4.51	4.65	4.50	4.59	4.73	4.88	4.68	4.78	4.92	5.08	4.83	4.93	5.09	5.25
		Amps	13.5	13.8	14.3	14.8	14.6	15.0	15.5	16.0	15.9	16.3	16.8	17.4	17.0	17.4	18.0	18.6	18.1	18.5	19.1	19.8	19.1	19.6	20.3	21.0
		Hi PR	138	148	156	163	154	166	175	183	176	189	199	208	200	215	227	237	225	242	256	267	248	267	282	295
		LO PR	58	61	67	71	61	65	71	75	63	67	73	78	66	71	77	82	70	74	81	86	72	77	84	89

2025	MBh	57.27	58.38	61.15	65.23	55.94	57.02	59.72	63.72	54.61	55.67	58.30	62.20	53.28	54.31	56.88	60.68	50.61	51.59	54.04	57.65	46.88	47.79	50.05	53.40
	S/T	0.95	0.91	0.82	0.67	0.98	0.95	0.85	0.69	1.00	0.97	0.88	0.71	1.00	1.00	0.90	0.73	1.00	1.00	0.94	0.76	1.00	1.00	0.95	0.77
	ΔT	25	24	23	20	25	24	23	20	25	25	23	20	24	25	23	20	23	23	23	20	21	22	21	19
	kW	3.93	4.01	4.12	4.25	4.21	4.30	4.43	4.56	4.46	4.55	4.69	4.84	4.68	4.78	4.93	5.08	4.87	4.97	5.13	5.29	5.03	5.14	5.30	5.47
	Amps	14.2	14.5	15.0	15.5	15.3	15.7	16.2	16.8	16.6	17.0	17.6	18.3	17.8	18.2	18.8	19.5	18.9	19.4	20.0	20.8	20.0	20.5	21.2	22.0
	HI PR	145	156	164	171	162	175	184	192	185	199	210	219	210	226	239	249	237	255	269	280	261	281	297	310
	LO PR	61	64	70	75	64	68	74	79	66	71	77	82	70	74	81	86	73	78	85	91	76	81	88	94
	MBh	55.6	56.7	59.4	63.3	54.3	55.4	58.0	61.9	53.0	54.0	56.6	60.4	51.7	52.7	55.2	58.9	49.1	50.1	52.5	56.0	45.5	46.4	48.6	51.8
	S/T	0.90	0.87	0.79	0.64	0.94	0.90	0.81	0.66	0.96	0.93	0.84	0.68	0.99	0.96	0.86	0.70	1.00	0.99	0.89	0.73	1.00	1.00	0.90	0.73
	ΔT	26	25	24	21	26	26	24	21	26	26	24	21	26	26	24	21	25	25	24	21	23	24	22	19
1800	kW	3.90	3.98	4.09	4.22	4.18	4.26	4.39	4.53	4.43	4.52	4.66	4.80	4.64	4.74	4.89	5.04	4.83	4.93	5.09	5.25	4.99	5.09	5.26	5.43
	Amps	14.0	14.4	14.8	15.4	15.2	15.5	16.0	16.6	16.5	16.9	17.4	18.1	17.6	18.0	18.6	19.3	18.7	19.2	19.8	20.6	19.9	20.3	21.0	21.8
	HI PR	143	154	163	170	161	173	183	190	183	197	208	217	208	224	237	247	234	252	266	278	259	278	294	307
	LO PR	60	64	70	74	63	67	74	78	66	70	76	81	69	74	80	86	72	77	84	90	75	80	87	93
	MBh	51.3	52.3	54.8	58.5	50.1	51.1	53.5	57.1	48.9	49.9	52.2	55.7	47.7	48.7	51.0	54.4	45.4	46.2	48.4	51.7	42.0	42.8	44.9	47.9
	S/T	0.87	0.84	0.76	0.61	0.90	0.87	0.79	0.64	0.92	0.89	0.81	0.65	0.95	0.92	0.83	0.67	0.99	0.96	0.86	0.70	1.00	0.96	0.87	0.71
	ΔT	26	26	24	21	26	26	25	21	26	26	25	21	27	26	25	21	26	26	24	21	24	24	23	20
	kW	3.81	3.89	4.00	4.12	4.08	4.17	4.29	4.42	4.32	4.41	4.55	4.69	4.53	4.63	4.77	4.92	4.71	4.81	4.96	5.12	4.87	4.97	5.13	5.29
	Amps	13.6	14.0	14.4	15.0	14.7	15.1	15.6	16.2	16.0	16.4	17.0	17.6	17.1	17.5	18.1	18.8	18.2	18.7	19.3	20.0	19.3	19.8	20.4	21.2
	HI PR	139	149	158	165	156	168	177	185	177	191	201	210	202	217	229	239	227	244	258	269	251	270	285	297
LO PR	58	62	68	72	61	65	71	76	64	68	74	79	67	71	78	83	70	75	82	87	73	77	84	90	

DB: Entering Indoor Dry Bulb Temperature	kW=Total system power	Shaded area reflects ARI conditions	Amps = outdoor unit amps (comp.+fan)
High and low pressures are measured at the liquid and suction service valves.			Design Subcooling 9 ±3 °F @ the liquid service valve, ARI 95 test conditions

ARI PERFORMANCE RATINGS

Outdoor Unit	Indoor Units		Cooling Capacity (BTU/h)				TVA Ratings		Heating Capacity			ARI #
	Indoor Coil	Furnace/Blower	Total	Sens.	SEER	EER	Total	Sens.	High	HSPF	Low	
VSH13 0181A*	ADPF182416B*		18,000	13,100	13	11.5	16,700	13,000	16,800	7.7	8,600	3314427
	AEPF183016C*		18,000	13,100	14	12.2	16,700	13,000	16,800	8	8,600	3314428
	AR*F182416B*		18,000	13,100	13	11.5	16,700	13,000	16,800	7.7	8,600	3314429
	ASPF183016B*		18,000	13,100	14	12.2	16,700	13,000	16,800	8	8,600	3314430
	AT*F182416A*		18,000	13,100	13	11.5	16,700	13,000	16,800	7.7	8,600	3314431
	CA*F1824*6C*	G*E80704B**	18,000	13,100	14	12.2	16,700	13,000	16,800	8	8,600	3314432
	CA*F1824*6C*	G*V80704B**	18,000	13,100	14	12.2	16,700	13,000	16,800	8	8,600	3314433
	CA*F1824*6C*	G*V950453B**	18,000	13,100	13.5	11.8	16,700	13,000	16,800	7.7	8,600	3314434
	CA*F1824*6C*+EEP		18,000	13,100	13	11.5	16,700	13,000	16,800	7.7	8,600	3314435
	CA*F1824*6C*	MBE1200**-.1B*	18,000	13,100	14	12.2	16,700	13,000	16,800	8	8,600	3315416
	CHPF1824A6A*+EEP		18,000	13,100	13	11.5	16,700	13,000	16,800	7.7	8,600	3314436
	CHPF2430B6B*	G*E80704B**	18,000	13,100	14	12.2	16,700	13,000	16,800	8	8,600	3314437
	CHPF2430B6B*	G*V80704B**	18,000	13,100	14	12.2	16,700	13,000	16,800	8	8,600	3314438
	CHPF2430B6B*	G*V950453B**	18,000	13,100	13.5	11.8	16,700	13,000	16,800	7.7	8,600	3314439
	CHPF2430B6B*+EEP		18,000	13,100	13	11.5	16,700	13,000	16,800	7.7	8,600	3314440
	CSCF1824N6A*	G*E80704B**	18,000	13,100	14	12.2	16,700	13,000	16,800	8	8,600	3314441
	CSCF1824N6A*	G*V80704B**	18,000	13,100	14	12.2	16,700	13,000	16,800	8	8,600	3314442
	CSCF1824N6A*	G*V950453B**	18,000	13,100	13.5	11.8	16,700	13,000	16,800	7.7	8,600	3314443
	CSCF1824N6A*+EEP		18,000	13,100	13	11.5	16,700	13,000	16,800	7.7	8,600	3314444
	CSCF3036N6B*	G*E80704B**	18,000	13,100	14	12.2	16,700	13,000	16,800	8	8,600	3314445
	CSCF3036N6B*	G*V80704B**	18,000	13,100	14	12.2	16,700	13,000	16,800	8	8,600	3314446
	CSCF3036N6B*	G*V950453B**	18,000	13,100	13.5	11.8	16,700	13,000	16,800	7.7	8,600	3314447
	CSCF3036N6B*+EEP		18,000	13,100	13	11.5	16,700	13,000	16,800	7.7	8,600	3314448
	CT*F1824*6A*	G*E80704B**	18,000	13,100	14	12.2	16,700	13,000	16,800	8	8,600	3314449
	CT*F1824*6A*	G*V80704B**	18,000	13,100	14	12.2	16,700	13,000	16,800	8	8,600	3314450
	CT*F1824*6A*	G*V950453B**	18,000	13,100	13.5	11.8	16,700	13,000	16,800	7.7	8,600	3314451
	CT*F1824*6A*+EEP		18,000	13,100	13	11.5	16,700	13,000	16,800	7.7	8,600	3314452
	CT*F1824*6A*	MBE1200**-.1B*	18,000	13,100	14	12.2	16,700	13,000	16,800	8	8,600	3315426
VSH13 0191A*	ACNF24XX16A*		18,000	13,100	13	11.5	16,700	13,000	16,800	7.7	8,600	3314453
	AR*F182416B*		18,400	13,400	13	11.5	17,000	13,300	17,000	8	8,800	3314454
	ASPF183016B*		18,000	13,100	14	12.2	16,700	13,000	17,000	8	8,800	3314455
	AT*F182416A*		18,400	13,400	13	11.5	17,000	13,300	17,000	8	8,800	3314456
	AWUF18XX16A*		18,000	13,100	13	11.5	16,700	13,000	16,800	7.8	8,600	3315554
	AWUF24XX16A*		18,000	13,100	13	11.5	16,700	13,000	16,800	7.8	8,600	3315555
VSH13 0241A*	ADPF182416B*		23,000	17,000	13	11.5	21,300	16,800	22,000	7.7	12,000	3314457
	AEPF183016C*		23,000	17,000	14	12.2	21,300	16,800	22,000	8	12,000	3314458
	AEPF303616C*		23,400	17,300	14	12.2	21,700	17,000	22,000	8	12,000	3314459
	AR*F182416B*		23,000	17,000	13	11.5	21,300	16,800	22,000	7.7	12,000	3314460
	ASPF183016B*		23,000	17,000	14	12.2	21,300	16,800	22,000	8.2	12,000	3314461
	ASPF303616B*		23,400	17,300	14	12.2	21,700	17,000	22,000	8	12,000	3314462
	AT*F182416A*		23,000	17,000	13	11.5	21,300	16,800	22,000	7.7	12,000	3314463
	AWUF30XX16B*		23,000	17,000	13	11.5	21,300	16,800	22,000	7.7	12,000	3314464
	AWUF36XX16B*		23,000	17,000	13	11.5	21,300	16,800	22,000	7.7	12,000	3314465
	CA*F1824*6C*	MBE1200**-.1B*	23,000	17,000	14	12.2	21,300	16,800	22,000	8	12,000	3315417

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ARI PERFORMANCE RATINGS (CONT.)

Outdoor Unit	Indoor Units		Cooling Capacity (BTU/h)				TVA Ratings		Heating Capacity			ARI #
	Indoor Coil	Furnace/Blower	Total	Sens.	SEER	EER	Total	Sens.	High	HSPF	Low	
VSH13 0241A* (cont.)	CA*F3030*6B*	G*E80704B**	23,000	17,000	14	12.2	21,300	16,800	22,000	7.7	12,000	3314466
	CA*F3030*6B*	G*V80704B**	23,000	17,000	13	11.5	21,300	16,800	22,000	7.7	12,000	3314467
	CA*F3030*6B*	G*V950453B**	23,000	17,000	13	11.8	21,300	16,800	22,000	7.7	12,000	3314468
	CA*F3030*6B*+EEP		23,000	17,000	13	11.5	21,300	16,800	22,000	7.7	12,000	3314469
	CHPF1824A6A*+EEP		23,000	17,000	13	11.5	21,300	16,800	22,000	7.7	12,000	3314470
	CHPF2430B6B*	G*E80704B**	23,000	17,000	14	12.2	21,300	16,800	22,000	7.7	12,000	3314471
	CHPF2430B6B*	G*V80704B**	23,000	17,000	13	11.5	21,300	16,800	22,000	7.7	12,000	3314472
	CHPF2430B6B*	G*V950453B**	23,000	17,000	13.5	11.8	21,300	16,800	22,000	7.7	12,000	3314473
	CHPF2430B6B*+EEP		23,000	17,000	13	11.5	21,300	16,800	22,000	7.7	12,000	3314474
	CSCF1824N6A*	G*E80704B**	23,000	17,000	14	12.2	21,300	16,800	22,000	7.7	12,000	3314475
	CSCF1824N6A*	G*V80704B**	23,000	17,000	13	11.5	21,300	16,800	22,000	7.7	12,000	3314476
	CSCF1824N6A*	G*V950453B**	23,000	17,000	13.5	11.8	21,300	16,800	22,000	7.7	12,000	3314477
	CSCF1824N6A*+EEP		23,000	17,000	13	11.5	21,300	16,800	22,000	7.7	12,000	3314478
	CSCF3036N6B*	G*E80704B**	23,000	17,000	14	12.2	21,300	16,800	22,000	7.7	12,000	3314479
	CSCF3036N6B*	G*V80704B**	23,000	17,000	13	11.5	21,300	16,800	22,000	7.7	12,000	3314480
	CSCF3036N6B*	G*V950453B**	23,000	17,000	13.5	11.8	21,300	16,800	22,000	7.7	12,000	3314481
	CSCF3036N6B*+EEP		23,000	17,000	13	11.5	21,300	16,800	22,000	7.7	12,000	3314482
	CT*F1824*6A*	MBE1200*-1B*	23,000	17,000	14	12.2	21,300	16,800	22,000	8	12,000	3315427
	CT*F3030*6A*	G*E80704B**	23,000	17,000	14	12.2	21,300	16,800	22,000	7.7	12,000	3314483
	CT*F3030*6A*	G*V80704B**	23,000	17,000	13	11.5	21,300	16,800	22,000	7.7	12,000	3314484
	CT*F3030*6A*	G*V950453B**	23,000	17,000	13	11.8	21,300	16,800	22,000	7.7	12,000	3314485
	CT*F3030*6A*+EEP		23,000	17,000	13	11.5	21,300	16,800	22,000	7.7	12,000	3314486
VSH13 0251A*	ACNF24XX16A*		23,600	17,400	13	11.5	21,800	17,200	22,600	7.7	12,400	3314487
	AR*F182416B*		24,000	17,600	13	11.5	22,200	17,500	22,600	8	12,400	3314488
	ASPF183016B*		23,000	17,000	14	12.2	21,300	16,800	22,000	8	12,000	3314489
	ASPF303616B*		23,400	17,300	14	12.2	21,600	17,100	23,600	7.8	12,400	3314490
	AT*F182416A*		24,000	17,600	13	11.5	22,200	17,500	22,600	8	12,400	3314491
	AWUF24XX16A*		23,000	17,000	13	11.5	21,300	16,800	22,600	7.8	12,400	3315556
	AWUF30XX16B*		23,600	17,400	13	11.5	21,800	17,200	22,600	7.8	12,400	3314492
	AWUF36XX16B*		23,600	17,400	13	11.5	21,800	17,200	22,600	7.8	12,400	3314493
VSH13 0301A*	ADPF304216B*		28,000	21,000	13	11.5	25,900	20,700	26,800	7.7	14,000	3314494
	AEPF183016C*		28,000	21,000	14	12.2	25,900	20,700	26,800	8	14,000	3314495
	AEPF303616C*		29,000	21,800	14	12.2	26,800	21,400	26,800	8	14,000	3314496
	AR*F182416B*+TXV		27,800	20,900	13	11.5	25,700	20,600	26,600	7.7	14,000	3314497
	AR*F303016B*		28,000	21,000	13	11.5	25,900	20,700	26,800	7.7	14,000	3314498
	ASPF183016B*		28,000	21,000	14	12.2	25,900	20,700	26,800	8	14,000	3314499
	ASPF303616B*		28,400	21,300	14	12.2	25,900	20,700	26,800	8	14,000	3314500
	AT*F303016A*		28,000	21,000	13	11.5	25,900	20,700	26,800	7.7	14,000	3314501
	AWUF37XX16B*		28,400	21,300	13	11.5	25,900	20,700	25,000	7.8	15,000	3314502
	CA*F3131*6C*	G*V80704B**	28,000	21,000	14	12.2	25,900	20,700	26,800	8	14,000	3314503
	CA*F3131*6C*	G*V950704C**	28,000	21,000	13.5	11.8	25,900	20,700	26,800	7.8	14,000	3314504
	CA*F3131*6C*+EEP		28,000	21,000	13	11.5	25,900	20,700	26,800	7.7	14,000	3314505
	CA*F3131*6C*	MBE1200*-1B*	28,000	21,000	13.5	11.8	25,900	20,700	26,800	7.8	14,000	3315418
	CA*F3636*6B*	G*E80704B**	28,000	21,000	14	12.2	25,900	20,700	26,800	8	14,000	3314506

See Notes on Page 32.

ARI PERFORMANCE RATINGS (CONT.)

Outdoor Unit	Indoor Units		Cooling Capacity (BTU/h)				TVA Ratings		Heating Capacity			ARI #
	Indoor Coil	Furnace/Blower	Total	Sens.	SEER	EER	Total	Sens.	High	HSPF	Low	
VSH13 0301A* (cont.)	CA*F3636*6B*+EEP		28,000	21,000	13	11.5	25,900	20,700	26,800	7.7	14,000	3314507
	CHPF2430B6B*	G*V80704B**	28,000	21,000	14	12.2	25,900	20,700	26,800	8	14,000	3314508
	CHPF2430B6B*	G*V90704C**	28,000	21,000	13.5	11.8	25,900	20,700	26,800	7.7	14,000	3314509
	CHPF2430B6B*	G*V950704C**	28,000	21,000	13.5	11.8	25,900	20,700	26,800	7.7	14,000	3314510
	CHPF2430B6B*+EEP		28,000	21,000	13	11.5	25,900	20,700	26,800	7.7	14,000	3314511
	CSCF3036N6B*	G*V80704B**	28,000	21,000	14	12.2	25,900	20,700	26,800	8	14,000	3314512
	CSCF3036N6B*	G*V90704C**	28,000	21,000	13.5	11.8	25,900	20,700	26,800	7.7	14,000	3314513
	CSCF3036N6B*	G*V950704C**	28,000	21,000	13.5	11.8	25,900	20,700	26,800	7.7	14,000	3314514
	CSCF3036N6B*+EEP		28,000	21,000	13	11.5	25,900	20,700	26,800	7.7	14,000	3314515
	CSCF3642N6C*	G*E80704B**	28,000	21,000	14	12.2	25,900	20,700	26,800	8	14,000	3314516
	CT*F3131*6A*	G*V80704B**	28,000	21,000	14	12.2	25,900	20,700	26,800	8	14,000	3314517
	CT*F3131*6A*	G*V950453B**	28,000	21,000	13.5	11.8	25,900	20,700	26,800	7.7	14,000	3314518
	CT*F3131*6A*	G*V950704C**	28,000	21,000	13.5	11.8	25,900	20,700	26,800	7.8	14,000	3314519
	CT*F3131*6A*+EEP		28,000	21,000	13	11.5	25,900	20,700	26,800	7.7	14,000	3314520
	CT*F3131*6A*	MBE1200**-1B*	28,000	21,000	13.5	11.8	25,900	20,700	26,800	7.8	14,000	3315428
	CT*F3131*6A*+TXV	MBE1200**-1B*	28,000	21,000	14	12.2	25,900	20,700	26,800	8	14,000	3315429
	CT*F3636*6A*	G*E80704B**	28,000	21,000	14	12.2	25,900	20,700	26,800	8	14,000	3314521
VSH13 0311A*	ACNF30XX16A*		27,000	21,100	13	11.5	25,000	20,800	25,600	7.7	14,000	3314522
	AR*F303016B*		28,000	21,000	13	11.5	25,900	20,700	26,000	8	15,000	3314523
	ASPF183016B*		28,000	21,000	14	12.2	25,900	20,700	26,800	8	14,000	3314524
	ASPF303616B*		28,400	21,300	14	12.2	26,300	21,000	26,800	8	14,000	3314525
	AT*F303016A*		28,000	21,000	13	11.5	25,900	20,700	26,000	8	15,000	3314526
	AWUF30XX16B*		27,400	21,400	13	11.5	25,300	21,000	25,600	8	14,400	3314527
	AWUF36XX16B*		27,400	21,400	13	11.5	25,300	21,000	25,600	8	14,400	3314528
	AWUF37XX16B*		27,400	21,400	13	11.5	25,300	21,000	26,000	8	15,000	3314529
VSH13 0361A*	ADPF304216B*		35,000	26,600	13	11.5	32,400	26,200	32,000	7.7	16,000	3314530
	AEPF303616C*		35,000	26,600	14	12.2	32,400	26,200	32,000	8	16,000	3314531
	AEPF426016C*		35,000	26,600	14	12.2	32,400	26,200	32,000	8	16,000	3314532
	AR*F363616B*		34,400	26,100	13	11.5	31,800	25,800	32,600	7.8	16,000	3314533
	AR*F364216B*		35,000	26,600	13	11.5	32,400	26,200	32,000	7.7	16,000	3314534
	AR*F374316B*		35,000	26,600	13	11.5	32,400	26,200	34,000	8	19,400	3314535
	ASPF303616B*		35,000	26,600	14	12.2	32,400	26,200	32,000	8	16,000	3314536
	ASPF426016B*		35,000	26,600	14	12.2	32,400	26,200	32,000	8	16,000	3314537
	AT*F363616A*		34,400	26,100	13	11.5	31,800	25,800	32,600	7.8	16,000	3314538
	AT*F364216A*		35,000	26,600	13	11.5	32,400	26,200	32,000	7.7	16,000	3314539
	AWUF37XX16B*		33,400	25,400	13	11.5	30,900	25,000	31,000	7.8	17,000	3314540
	CA*F3636*6B*	G*V90704C**	33,600	25,500	13.5	11.8	31,100	25,200	32,000	8	16,000	3314541
	CA*F3642*6B*	G*E80905C**	35,000	26,600	14	12.2	32,400	26,200	32,000	8	16,000	3314542
	CA*F3642*6B*	G*V80905C**	35,000	26,600	14	12.2	32,400	26,200	32,000	8	16,000	3314543
	CA*F3642*6B*	G*V81155C**	35,000	26,600	14	12.2	32,400	26,200	32,000	8	16,000	3314544
	CA*F3642*6B*	G*V90905D**	35,000	26,600	14	12.2	32,400	26,200	32,000	8	16,000	3314545
	CA*F3642*6B*	G*V950905D**	35,000	26,600	13.5	11.8	32,400	26,200	32,000	7.7	16,000	3314546
	CA*F3642*6B*	G*V951155D**	35,000	26,600	13.5	11.8	32,400	26,200	32,000	7.7	16,000	3314547
	CA*F3642*6B*+EEP		35,000	26,600	13	11.5	32,400	26,200	32,000	7.7	16,000	3314548

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ARI PERFORMANCE RATINGS (CONT.)

Outdoor Unit	Indoor Units		Cooling Capacity (BTU/h)				TVA Ratings		Heating Capacity			ARI #
	Indoor Coil	Furnace/Blower	Total	Sens.	SEER	EER	Total	Sens.	High	HSPF	Low	
VSH13 0361A* (cont.)	CA*F3642*6B*	MBE1600**-1B*	35,000	26,600	14	12.2	32,400	26,200	32,000	8	16,000	3315419
	CA*F3743*6A*	G*E80905C**	35,000	26,600	14	12.2	32,400	26,200	32,000	8	16,000	3314549
	CA*F3743*6A*	G*V80905C**	35,000	26,600	14	12.2	32,400	26,200	32,000	8	16,000	3314550
	CA*F3743*6A*	G*V81155C**	35,000	26,600	14	12.2	32,400	26,200	32,000	8	16,000	3314551
	CA*F3743*6A*	G*V90905D**	35,000	26,600	14	12.2	32,400	26,200	32,000	8	16,000	3314552
	CA*F3743*6A*	G*V950704C**	34,000	25,800	13.5	11.8	31,500	25,500	32,000	8	16,000	3314553
	CA*F3743*6A*	G*V950905D**	35,000	26,600	13.5	11.8	32,400	26,200	32,000	7.7	16,000	3314554
	CA*F3743*6A*	G*V951155D**	35,000	26,600	13.5	11.8	32,400	26,200	32,000	7.7	16,000	3314555
	CA*F3743*6A*+EEP		35,000	26,600	13	11.5	32,400	26,200	32,000	7.7	16,000	3314556
	CA*F3743*6A*	MBE1600**-1B*	35,000	26,600	14	12.2	32,400	26,200	32,000	8	16,000	3315421
	CA*F3743*6A*+TXV	G*V90704C**	34,400	26,100	13.5	11.8	31,800	25,800	32,000	8	16,000	3314557
	CA*F3743*6A*+TXV	G*V950704C**	34,000	25,800	13.7	12	31,500	25,500	32,000	8	16,000	3314558
	CHPF3636B6B*+EEP		35,000	26,600	13	11.5	32,400	26,200	32,000	7.7	16,000	3314559
	CHPF3642C6B*	G*E80905C**	35,000	26,600	14	12.2	32,400	26,200	32,000	7.8	16,000	3314560
	CHPF3642C6B*	G*V80905C**	35,000	26,600	14	12.2	32,400	26,200	32,000	7.7	16,000	3314561
	CHPF3642C6B*	G*V81155C**	35,000	26,600	14	12.2	32,400	26,200	32,000	8	16,000	3314562
	CHPF3642C6B*+EEP		35,000	26,600	13	11.5	32,400	26,200	32,000	7.7	16,000	3314563
	CHPF3642D6B*	G*V90905D**	35,000	26,600	14	12.2	32,400	26,200	32,000	8	16,000	3314564
	CHPF3642D6B*	G*V950905D**	35,000	26,600	13.5	11.8	32,400	26,200	32,000	7.7	16,000	3314565
	CHPF3642D6B*	G*V951155D**	35,000	26,600	13.5	11.8	32,400	26,200	32,000	7.7	16,000	3314566
	CHPF3642D6B*+EEP		35,000	26,600	13	11.5	32,400	26,200	32,000	7.7	16,000	3314567
	CSCF3642N6C*	G*E80905C**	35,000	26,600	14	12.2	32,400	26,200	32,000	8	16,000	3314568
	CSCF3642N6C*	G*V80905C**	35,000	26,600	14	12.2	32,400	26,200	32,000	8	16,000	3314569
	CSCF3642N6C*	G*V81155C**	35,000	26,600	14	12.2	32,400	26,200	32,000	8	16,000	3314570
	CSCF3642N6C*	G*V90905D**	35,000	26,600	14	12.2	32,400	26,200	32,000	8	16,000	3314571
	CSCF3642N6C*	G*V950905D**	35,000	26,600	13.5	11.8	32,400	26,200	32,000	7.7	16,000	3314572
	CSCF3642N6C*	G*V951155D**	35,000	26,600	13.5	11.8	32,400	26,200	32,000	7.7	16,000	3314573
	CSCF3642N6C*+EEP		35,000	26,600	13	11.5	32,400	26,200	32,000	7.7	16,000	3314574
	CT*F3636*6A*	G*V950704C**	33,600	25,500	13.5	11.8	31,100	25,200	32,000	8	16,000	3314575
	CT*F3636*6A*+TXV	G*V950704C**	33,600	25,500	13.7	12	31,100	25,200	32,000	8	16,000	3314576
	CT*F3642*6A*	G*E80905C**	35,000	26,600	14	12.2	32,400	26,200	32,000	8	16,000	3314577
	CT*F3642*6A*	G*V80905C**	35,000	26,600	14	12.2	32,400	26,200	32,000	8	16,000	3314578
	CT*F3642*6A*	G*V81155C**	35,000	26,600	14	12.2	32,400	26,200	32,000	8	16,000	3314579
	CT*F3642*6A*	G*V90905D**	35,000	26,600	14	12.2	32,400	26,200	32,000	8	16,000	3314580
	CT*F3642*6A*	G*V950704C**	34,000	25,800	13.5	11.8	31,500	25,500	32,000	8	16,000	3314581
	CT*F3642*6A*	G*V950905D**	35,000	26,600	13.5	11.8	32,400	26,200	32,000	7.7	16,000	3314582
	CT*F3642*6A*	G*V951155D**	35,000	26,600	13.5	11.8	32,400	26,200	32,000	7.7	16,000	3314583
	CT*F3642*6A*+EEP		35,000	26,600	13	11.5	32,400	26,200	32,000	7.7	16,000	3314584
	CT*F3642*6A*	MBE1600**-1B*	35,000	26,600	14	12.2	32,400	26,200	32,000	8	16,000	3315430
	CT*F3642*6A*+TXV	G*V90704C**	34,400	26,100	13.5	11.8	31,800	25,800	32,000	8	16,000	3314585
	CT*F3642*6A*+TXV	G*V950704C**	34,000	25,800	13.7	12	31,500	25,500	32,000	8	16,000	3314586

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ARI PERFORMANCE RATINGS (CONT.)

Outdoor Unit	Indoor Units		Cooling Capacity (BTU/h)				TVA Ratings		Heating Capacity			ARI #
	Indoor Coil	Furnace/Blower	Total	Sens.	SEER	EER	Total	Sens.	High	HSPF	Low	
VSH13 0421A*	ADPF304216B*		40,000	30,400	13	11.5	37,000	30,000	39,000	8	23,000	3314587
	AEPF426016C*		41,000	31,200	14	12.2	37,900	30,700	39,500	8.2	23,000	3314588
	AR*F364216B*		40,000	30,400	13	11.5	37,000	30,000	39,000	8	23,000	3314589
	ASPF426016B*		41,000	31,200	14	12.2	37,900	30,700	39,500	8.2	23,000	3314590
	AT*F364216A*		40,000	30,400	13	11.5	37,000	30,000	39,000	8	23,000	3314591
	CA*F3642*6B*+EEP		40,000	30,400	13	11.5	37,000	30,000	39,000	8	23,000	3314592
	CA*F3642*6B*	MBE1600**-1B*	41,000	31,200	14	12.2	37,900	30,700	39,000	8.2	23,000	3315420
	CA*F3743*6A*+EEP		40,000	30,400	13	11.5	37,000	30,000	39,000	8	23,000	3314593
	CA*F3743*6A*	MBE1600**-1B*	41,000	31,200	14	12.2	37,900	30,700	39,000	8.2	23,000	3315422
	CA*F4860*6B*	G*E80905C**	41,000	31,200	14	12.2	37,900	30,700	39,000	8.2	23,000	3314594
	CA*F4860*6B*	G*E81155C**	41,000	31,200	14	12.2	37,900	30,700	39,000	8.2	23,000	3314595
	CA*F4860*6B*	G*V80905C**	41,000	31,200	14	12.2	37,900	30,700	39,000	8.2	23,000	3314596
	CA*F4860*6B*	G*V81155C**	41,000	31,200	14	12.2	37,900	30,700	39,000	8.2	23,000	3314597
	CA*F4860*6B*	G*V90905D**	41,000	31,200	13.5	11.8	37,900	30,700	39,000	8	23,000	3314598
	CA*F4860*6B*	G*V950905D**	41,000	31,200	13.5	11.8	37,900	30,700	39,000	8	23,000	3314599
	CA*F4860*6B*	G*V951155D**	41,000	31,200	13.5	11.8	37,900	30,700	39,000	8	23,000	3314600
	CHPF3642C6B*+EEP		40,000	30,400	13	11.5	37,000	30,000	39,000	8	23,000	3314601
	CHPF3642D6B*+EEP		40,000	30,400	13	11.5	37,000	30,000	39,000	8	23,000	3314602
	CHPF4860D6C*	G*E80905C**	41,000	31,200	14	12.2	37,900	30,700	39,000	8.2	23,000	3314603
	CHPF4860D6C*	G*E81155C**	41,000	31,200	14	12.2	37,900	30,700	39,000	8.2	23,000	3314604
	CHPF4860D6C*	G*V80905C**	41,000	31,200	14	12.2	37,900	30,700	39,000	8.2	23,000	3314605
	CHPF4860D6C*	G*V81155C**	41,000	31,200	14	12.2	37,900	30,700	39,000	8.2	23,000	3314606
	CHPF4860D6C*	G*V90905D**	41,000	31,200	13.5	11.8	37,900	30,700	39,000	8	23,000	3314607
	CHPF4860D6C*	G*V950905D**	41,000	31,200	13.5	11.8	37,900	30,700	39,000	8	23,000	3314608
	CHPF4860D6C*	G*V951155D**	41,000	31,200	13.5	11.8	37,900	30,700	39,000	8	23,000	3314609
	CSCF3642N6C*+EEP		40,000	30,400	13	11.5	37,000	30,000	39,000	8	23,000	3314610
	CSCF4860N6C*	G*E80905C**	41,000	31,200	14	12.2	37,900	30,700	39,000	8.2	23,000	3314611
	CSCF4860N6C*	G*E81155C**	41,000	31,200	14	12.2	37,900	30,700	39,000	8.2	23,000	3314612
	CSCF4860N6C*	G*V80905C**	41,000	31,200	14	12.2	37,900	30,700	39,000	8.2	23,000	3314613
	CSCF4860N6C*	G*V81155C**	41,000	31,200	14	12.2	37,900	30,700	39,000	8.2	23,000	3314614
	CSCF4860N6C*	G*V90905D**	41,000	31,200	13.5	11.8	37,900	30,700	39,000	8	23,000	3314615
	CSCF4860N6C*	G*V950905D**	41,000	31,200	13.5	11.8	37,900	30,700	39,000	8	23,000	3314616
	CSCF4860N6C*	G*V951155D**	41,000	31,200	13.5	11.8	37,900	30,700	39,000	8	23,000	3314617
	CT*F3642*6A*+EEP		40,000	30,400	13	11.5	37,000	30,000	39,000	8	23,000	3314618
	CT*F3642*6A*	MBE1600**-1B*	41,000	31,200	14	12.2	37,900	30,700	39,000	8.2	23,000	3315431
	CT*F4860*6A*	G*E80905C**	41,000	31,200	14	12.2	37,900	30,700	39,000	8.2	23,000	3314619
	CT*F4860*6A*	G*E81155C**	41,000	31,200	14	12.2	37,900	30,700	39,000	8.2	23,000	3314620
	CT*F4860*6A*	G*V80905C**	41,000	31,200	14	12.2	37,900	30,700	39,000	8.2	23,000	3314621
	CT*F4860*6A*	G*V81155C**	41,000	31,200	14	12.2	37,900	30,700	39,000	8.2	23,000	3314622
	CT*F4860*6A*	G*V90905D**	41,000	31,200	13.5	11.8	37,900	30,700	39,000	8	23,000	3314623
	CT*F4860*6A*	G*V950905D**	41,000	31,200	13.5	11.8	37,900	30,700	39,000	8	23,000	3314624
	CT*F4860*6A*	G*V951155D**	41,000	31,200	13.5	11.8	37,900	30,700	39,000	8	23,000	3314625

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ARI PERFORMANCE RATINGS (CONT.)

Outdoor Unit	Indoor Units		Cooling Capacity (BTU/h)				TVA Ratings		Heating Capacity			ARI #
	Indoor Coil	Furnace/Blower	Total	Sens.	SEER	EER	Total	Sens.	High	HSPF	Low	
VSH13 0481A*	ADPF486016B*		45,000	34,200	13	11.5	41,600	33,700	43,000	8.2	27,000	3314626
	AEPF426016C*		45,000	34,200	14	12.2	41,600	33,700	43,000	8.4	27,000	3314627
	AR*F486016B*		45,000	34,200	13	11.5	41,600	33,700	43,000	8.2	27,000	3314628
	AR*F496116A*		45,000	34,200	13	11.5	41,600	33,700	43,000	8.2	27,000	3314629
	ASPF426016B*		45,000	34,200	14	12.2	41,600	33,700	43,000	8.4	27,000	3314630
	AT*F486016A*		45,000	34,200	13	11.5	41,600	33,700	43,000	8.2	27,000	3314631
	CA*F4860*6B*	G*E80905C**	45,000	34,200	13.5	11.8	41,600	33,700	43,000	8.3	27,000	3314632
	CA*F4860*6B*	G*E81155C**	45,000	34,200	13.5	11.8	41,600	33,700	43,000	8.3	27,000	3314633
	CA*F4860*6B*	G*V80905C**	45,000	34,200	13.5	11.8	41,600	33,700	43,000	8.3	27,000	3314634
	CA*F4860*6B*	G*V81155C**	45,000	34,200	14	12.2	41,600	33,700	43,000	8.4	27,000	3314635
	CA*F4860*6B*	G*V90905D**	45,000	34,200	13.5	11.8	41,600	33,700	43,000	8.3	27,000	3314636
	CA*F4860*6B*	G*V950905D**	45,000	34,200	13.5	11.8	41,600	33,700	43,000	8.3	27,000	3314637
	CA*F4860*6B*	G*V951155D**	45,000	34,200	13.5	11.8	41,600	33,700	43,000	8.3	27,000	3314638
	CA*F4860*6B*+EEP		45,000	34,200	13	11.5	41,600	33,700	43,000	8.2	27,000	3314639
	CA*F4860*6B*	MBE2000**-1B*	45,000	34,200	14	12.2	41,600	33,700	43,000	8.4	27,000	3315423
	CHPF4860D6C*	G*E80905C**	45,000	34,200	13.5	11.8	41,600	33,700	43,000	8.3	27,000	3314640
	CHPF4860D6C*	G*E81155C**	45,000	34,200	13.5	11.8	41,600	33,700	43,000	8.3	27,000	3314641
	CHPF4860D6C*	G*V80905C**	45,000	34,200	13.5	11.8	41,600	33,700	43,000	8.3	27,000	3314642
	CHPF4860D6C*	G*V81155C**	45,000	34,200	13.5	11.8	41,600	33,700	43,000	8.3	27,000	3314643
	CHPF4860D6C*	G*V90905D**	45,000	34,200	13.5	11.8	41,600	33,700	43,000	8.3	27,000	3314644
	CHPF4860D6C*	G*V950905D**	45,000	34,200	13.5	11.8	41,600	33,700	43,000	8.3	27,000	3314645
	CHPF4860D6C*	G*V951155D**	45,000	34,200	13.5	11.8	41,600	33,700	43,000	8.3	27,000	3314646
	CHPF4860D6C*+EEP		45,000	34,200	13	11.5	41,600	33,700	43,000	8.2	27,000	3314647
	CHPF4860D6C*	MBE2000**-1B*	45,000	34,200	14	12.2	41,600	33,700	45,000	8.5	26,000	3315425
	CHPF4860D6C*+TXV	MBE2000**-1B*	45,500	34,400	14.5	12	41,800	33,900	45,000	8.5	26,000	3314648
	CSCF4860N6C*	G*E80905C**	45,000	34,200	13.5	11.8	41,600	33,700	43,000	8.3	27,000	3314649
	CSCF4860N6C*	G*E81155C**	45,000	34,200	13.5	11.8	41,600	33,700	43,000	8.3	27,000	3314650
	CSCF4860N6C*	G*V80905C**	45,000	34,200	13.5	11.8	41,600	33,700	43,000	8.3	27,000	3314651
	CSCF4860N6C*	G*V81155C**	45,000	34,200	13.5	11.8	41,600	33,700	43,000	8.3	27,000	3314652
	CSCF4860N6C*	G*V90905D**	45,000	34,200	13.5	11.8	41,600	33,700	43,000	8.3	27,000	3314653
	CSCF4860N6C*	G*V950905D**	45,000	34,200	13.5	11.8	41,600	33,700	43,000	8.3	27,000	3314654
	CSCF4860N6C*	G*V951155D**	45,000	34,200	13.5	11.8	41,600	33,700	43,000	8.3	27,000	3314655
	CSCF4860N6C*+EEP		45,000	34,200	13	11.5	41,600	33,700	43,000	8.2	27,000	3314656
	CT*F4860*6A*	G*E80905C**	45,000	34,200	13.5	11.8	41,600	33,700	43,000	8.3	27,000	3314657
	CT*F4860*6A*	G*E81155C**	45,000	34,200	13.5	11.8	41,600	33,700	43,000	8.3	27,000	3314658
	CT*F4860*6A*	G*V80905C**	45,000	34,200	13.5	11.8	41,600	33,700	43,000	8.3	27,000	3314659
	CT*F4860*6A*	G*V81155C**	45,000	34,200	14	12.2	41,600	33,700	43,000	8.4	27,000	3314660
	CT*F4860*6A*	G*V90905D**	45,000	34,200	13.5	11.8	41,600	33,700	43,000	8.3	27,000	3314661
	CT*F4860*6A*	G*V950905D**	45,000	34,200	13.5	11.8	41,600	33,700	43,000	8.3	27,000	3314662
	CT*F4860*6A*	G*V951155D**	45,000	34,200	13.5	11.8	41,600	33,700	43,000	8.3	27,000	3314663
	CT*F4860*6A*+EEP		45,000	34,200	13	11.5	41,600	33,700	43,000	8.2	27,000	3314664
	CT*F4860*6A*	MBE2000**-1B*	45,000	34,200	14	12.2	41,600	33,700	43,000	8.4	27,000	3315432

See Notes on Page 32.

ARI PERFORMANCE RATINGS (CONT.)

Outdoor Unit	Indoor Units		Cooling Capacity (BTU/h)				TVA Ratings		Heating Capacity			ARI #
	Indoor Coil	Furnace/Blower	Total	Sens.	SEER	EER	Total	Sens.	High	HSPF	Low	
VSH13 0601A*	ADPF486016B*		55,500	40,000	13	11.5	51,300	39,500	55,500	8.5	35,000	3314665
	AEPF426016C*		55,500	40,000	13.3	11.7	51,300	39,500	55,500	8.6	35,000	3314666
	AR*F486016B*		55,500	40,000	13	11.5	51,300	39,500	55,500	8.5	35,000	3314667
	AR*F496116A*		55,500	40,000	13	11.5	51,300	39,500	55,500	8.5	35,000	3314668
	ASPF426016B*		55,500	40,000	13.3	11.7	51,300	39,500	55,500	8.6	35,000	3314669
	ASPF426016B*+TXV		55,500	40,000	14	12.2	51,300	39,500	55,500	8.6	35,000	3314670
	AT*F486016A*		55,500	40,000	13	11.5	51,300	39,500	55,500	8.5	35,000	3314671
	CA*F4860*6B*	G*V80905C**	55,500	40,000	13.3	11.7	51,300	39,500	55,500	8.5	35,000	3314672
	CA*F4860*6B*	G*V81155C**	55,500	40,000	13.3	11.7	51,300	39,500	55,500	8.5	35,000	3314673
	CA*F4860*6B*+EEP		55,500	40,000	13	11.5	51,300	39,500	55,500	8.5	35,000	3314674
	CA*F4860*6B*	MBE2000**-1B*	55,500	40,000	13.5	11.8	51,300	39,500	55,500	8.6	35,000	3315424
	CHPF4860D6C*	G*V80905C**	55,500	40,000	13.3	11.7	51,300	39,500	55,500	8.5	35,000	3314675
	CHPF4860D6C*	G*V81155C**	55,500	40,000	13.3	11.7	51,300	39,500	55,500	8.5	35,000	3314676
	CHPF4860D6C*+EEP		55,500	40,000	13	11.5	51,300	39,500	55,500	8.5	35,000	3314677
	CSCF4860N6C*	G*V80905C**	55,500	40,000	13.3	11.7	51,300	39,500	55,500	8.5	35,000	3314678
	CSCF4860N6C*	G*V81155C**	55,500	40,000	13.3	11.7	51,300	39,500	55,500	8.5	35,000	3314679
	CSCF4860N6C*+EEP		55,500	40,000	13	11.5	51,300	39,500	55,500	8.5	35,000	3314680
	CT*F4860*6A*	G*V80905C**	55,500	40,000	13.3	11.7	51,300	39,500	55,500	8.5	35,000	3314681
	CT*F4860*6A*	G*V81155C**	55,500	40,000	13.3	11.7	51,300	39,500	55,500	8.5	35,000	3314682
	CT*F4860*6A*+EEP		55,500	40,000	13	11.5	51,300	39,500	55,500	8.5	35,000	3314683
	CT*F4860*6A*	MBE2000**-1B*	55,500	40,000	13.5	11.8	51,300	39,500	55,500	8.6	35,000	3315433

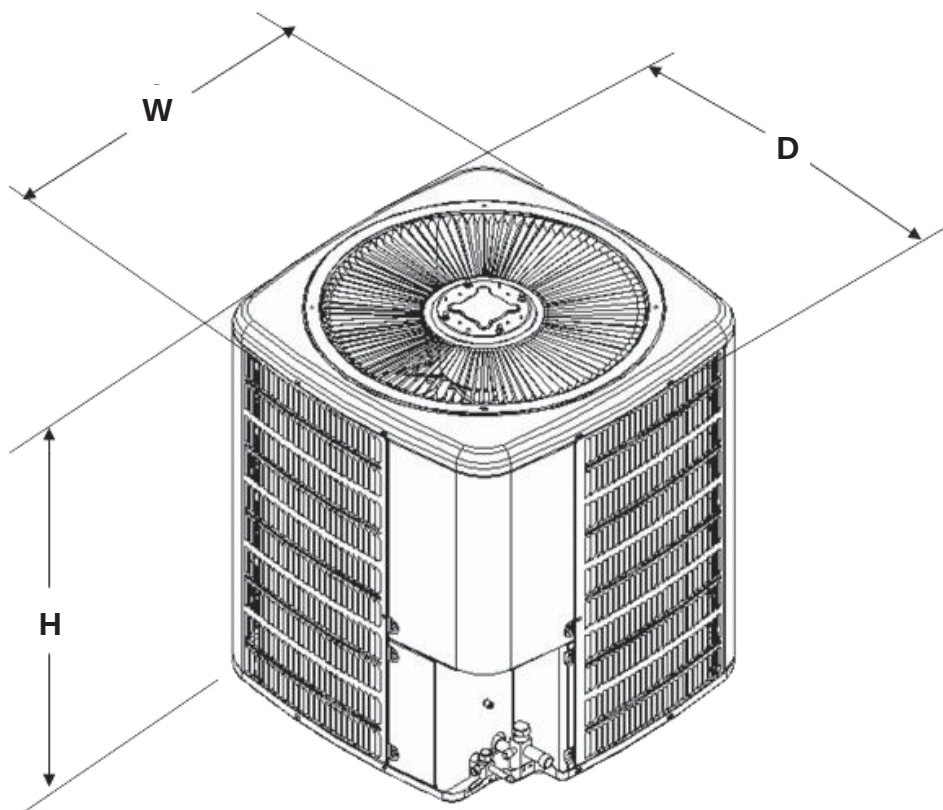
¹ Seasonal Energy Efficiency Ratio; Certified per ARI 210/240 @ 80°F/ 67°F/ 95°F

² Energy Efficiency Ratio @ 80 °F/67 °F Inside - 95 °F

Notes:

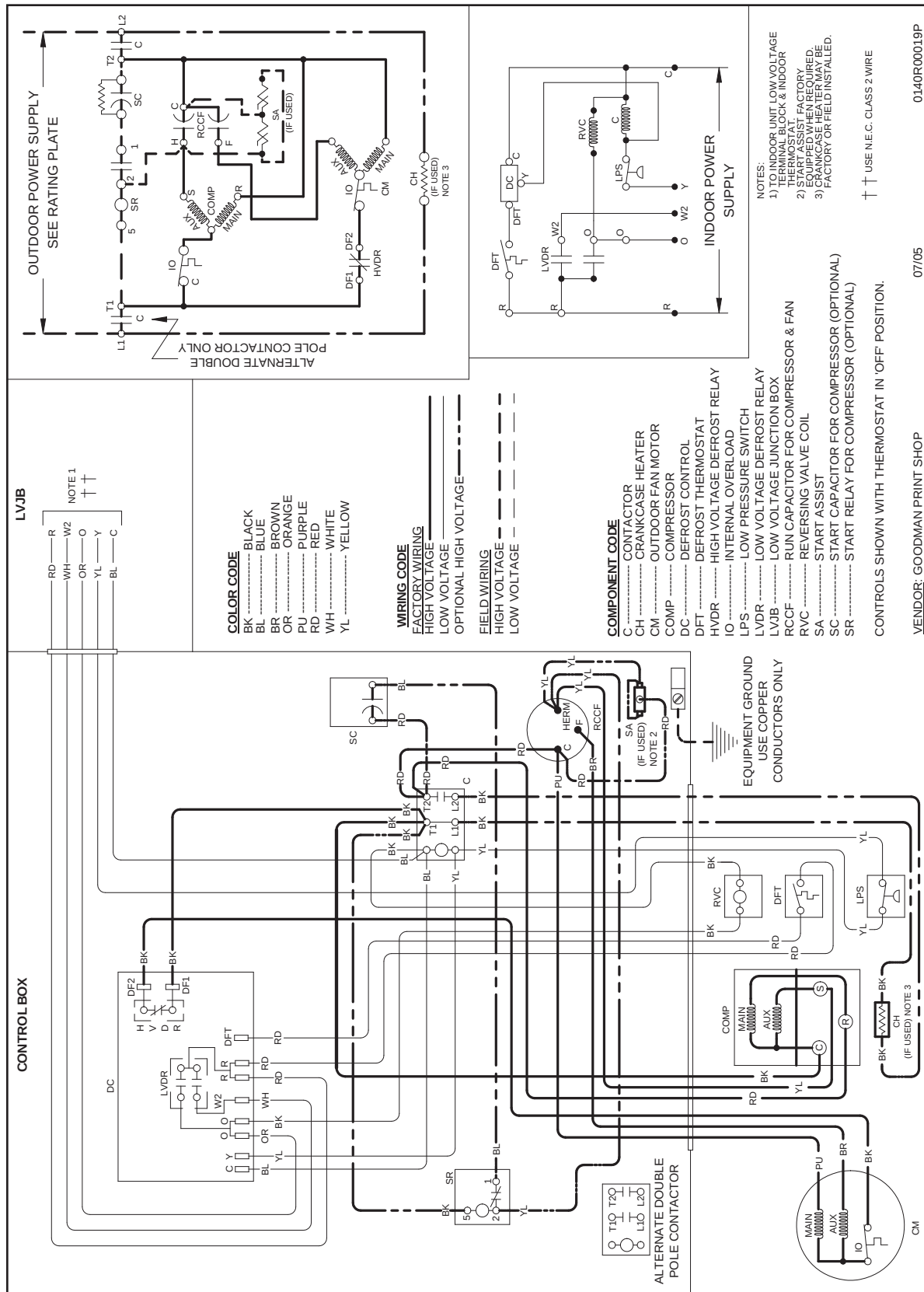
- Always check the S&R plate for electrical data on the unit being installed.
- When matching the outdoor unit to the indoor unit, use the piston supplied with the outdoor unit or that specified on the piston kit chart supplied with the indoor unit.
- EEP: Order from Service Dept. Part No. B13707-38 or new Solid State Board B13707-35S. Part No. B13707-38 is not interchangeable with B13707-35S. The Goodman Gas Furnace contains the EEP cooling time delay.

DIMENSIONS



Model	Dimensions		
	W"	D"	H"
VSH130181A*	26	26	32¼
VSH130191A*	29	29	34¼
VSH130241A*	26	26	32¼
VSH130251A*	29	29	34¾
VSH130301A*	26	26	34¼
VSH130311A*	29	29	34¾
VSH130361A*	29	29	38¼
VSH130421A*	29	29	32¼
VSH130481A*	29	29	34¾
VSH130601A*	35½	35½	34¾

WIRING DIAGRAM



Wiring is subject to change. Always refer to the wiring diagram on the unit for the most up-to-date wiring schematic.

WARNING

High Voltage:
Disconnect all power before servicing or installing this unit. Multiple power sources may be present. Failure to do so may cause property damage, personal injury, or death.

ACCESSORIES

Model	Description	VSH13 018	VSH13 019	VSH13 024	VSH13 025	VSH13 030	VSH13 031	VSH13 036	VSH13 042	VSH13 048	VSH13 060
ABK-20	Anchor Bracket Kit ▼	X	X	X	X	X	X	X	X	X	X
AFE18-60A	All-fuel Kit	X	X	X	X	X	X	X	X	X	X
ASC01	Anti-Short Cycle Kit	X	X	X	X	X	X	X	X	X	X
TBA	Hard-start Kit	X	X	X	X	X	X	X			
TBA	Hard-start Kit							X	X	X	X
TBA	Hard-start Kit									X	X
FSK01A ¹	Freeze Protection Kit	X	X	X	X	X	X	X	X	X	X
OT/EHR18-60	Emergency Heat Relay kit	X	X	X	X	X	X	X	X	X	X
OT18-60A ²	Outdoor Thermostat with Lock-out Stat	X	X	X	X	X	X	X	X	X	X
TX3N2 ³	TXV Kit -- Field-installed, non-bleed, expansion valve kit	X	X	X	X	X	X	X			
TX5N2 ³	TXV Kit -- Field-installed, non-bleed, expansion valve kit								X	X	X

▼ Contains 20 brackets; four brackets needed to anchor unit to pad

¹ Installed on indoor coil

² Required for heat pump applications where ambient temperatures fall below 0 °F with 50% or higher relative humidity.

³ Condensing units and heat pumps with reciprocating compressors require the use of start-assist components when used in conjunction with an indoor coil using a non-bleed thermal expansion valve refrigerant metering device.

NOTES

