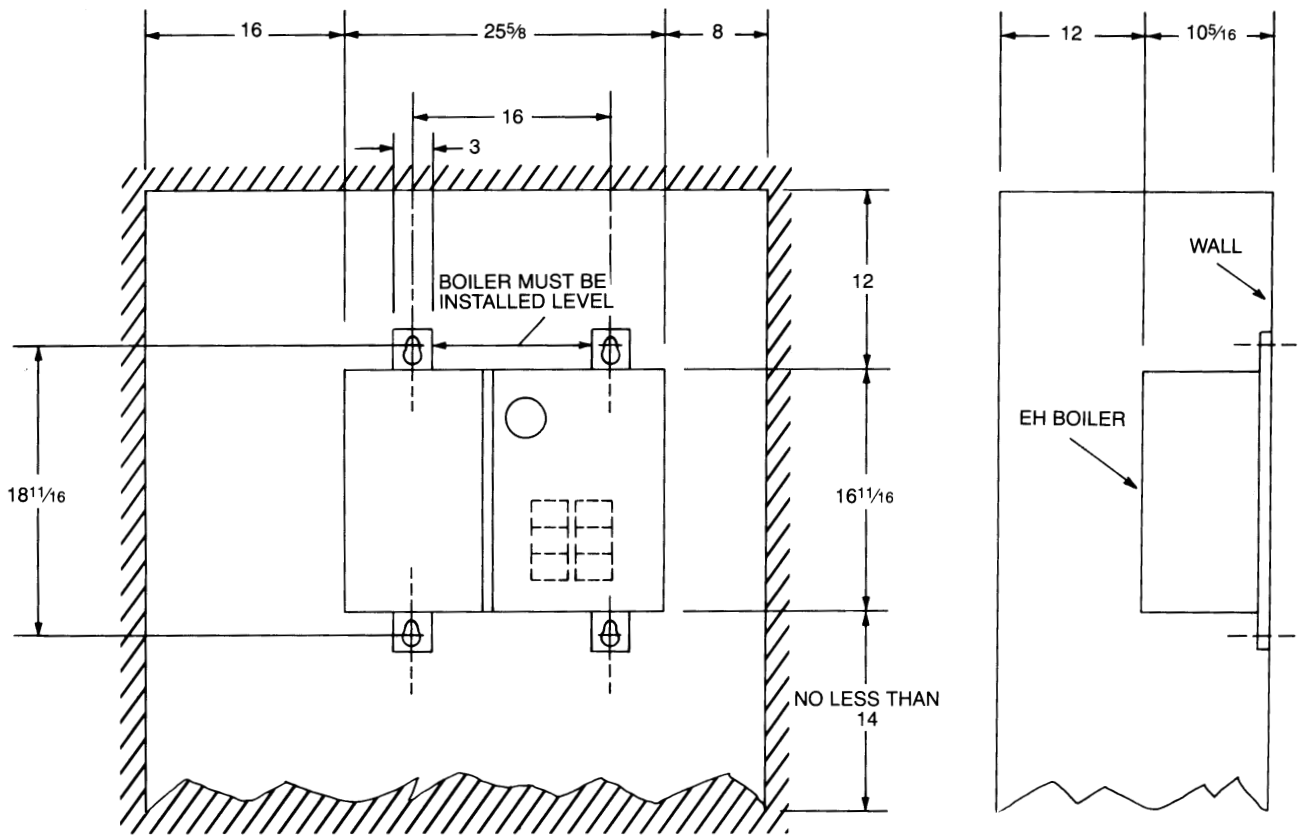




DIMENSIONS – OIL BOILERS

MONITRON ELECTRIC BOILER



RATINGS AND SPECIFICATIONS

Boiler Model No.	SINGLE PHASE * KW at 240 VAC	SINGLE PHASE D.O.E Capacity *(Btu/hr) at 240 VAC	Neutral Lug Size (AWG)		SINGLE PHASE — THREE WIRE			THREE PHASE — FOUR WIRE 208 VAC WYE §						
			Solid Cu ¶ AL	Stranded Cu ¶ AL	Main Lug Size (AWG) CU ¶ AL	Grounding Lug Size (AWG) Cu ¶ AL	† ** Heater Amps at 240 VAC	KW at 208 VAC	D.O.E Capacity (Btu/h) at 208 VAC	Main Lug Size (AWG) CU ¶ AL	Grounding Lug Size (AWG) Cu ¶ AL	† Heater Amps at 208 VAC		
EH8S	8	27000	14-12	12	6-2/0	14-4	6-4	33	—	—	—	—	—	—
EH10S	10	34000	14-12	12	6-2/0	14-4	6-4	42	—	—	—	—	—	—
EH12S	12	41000	14-12	12	6-2/0	14-4	6-4	50	9.012	31000	6-2/0	14-4	6-4	25.1
EH16S	16	55000	14-12	12	6-2/0	14-4	6-4	67	12.016	41000	6-2/0	14-4	6-4	‡38.1
EH20S	20	68000	14-12	12	6-2/0	14-4	6-4	83	15.020	51000	6-2/0	14-4	6-4	‡48
EH24S	24	82000	14-12	12	6/2/0	14-4	6-4	100	18.024	62000	6-2/0	14-4	6-4	‡60
EH28S	28	96000	14-12	12	2-250 MCM	14-4	6-4	117	21.028	72000	6-2/0	14-4	6-4	‡60
EH32S	32	109000	14-12	12	2-250 MCM	14-4	6-4	133	24.032	82000	6-2/0	14-4	6-4	‡73
EH40S	40	137000	14-12	12	2-250 MCM	6-2/0	—	167	30.040	103000	6-2/0	14-4	6-4	‡95.4

* Multiply by 0.751 for values at 208 volts AC.

** Multiply by 0.867 for values at 208 volts AC.

† For total current add, to the value shown in the table, the current draw for circulator and/or zone valve transformer (12 Amp. max.),

‡ Leg with the highest value of line current of an unbalanced 3 phase load.

¶ Aluminum conductors may be used, lug size, conduit size, ampacity and all applicable codes permitting. However, aluminum conductors may not be used for model EH-40 single phase.

§ 3 phase 240V special model also available. Consult factory for information.

Specify Model as follows: Model Number. Single or three Phase.

“135S” for single phase, 120V/240V, 120V/208V WYE. 3 wire (see note (1) below) with control circuit breaker.

“345S” for three phase, 120V/208V WYE. 4 wire (see note (1) below) with control circuit breaker.

Note No. 1: Voltage of any line to ground cannot exceed 125 VAC.

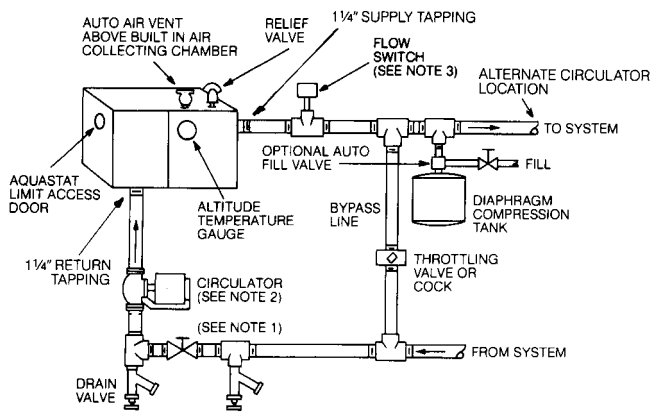
Example: EH-20-135S=20KW boiler for 120V/240V. 120V/208V Single Phase 3 wire.

ELECTRICAL

- Single branch circuit for 3 wire 120/208 V WYE, 120/240 Volt a.c. single phase, 60 Hz or for 4 wire 120/208V WYE three phase, 60Hz a.c. See note (1) above.
- Circulator relay 12 AMP Max, 120V a.c.
- Heating elements: Low-density replaceable. Copper sheathed and silver brazed base.
- Relays: Heavy-duty contactors, 48 AMP U.L. rating

TYPICAL PIPING DIAGRAM

FOR USE WITH TWO-WAY ZONE VALVES



NOTES:

1. Optional blocking gate valve and hose end valve used (with drain valve) for fast fill and purge of system.
IMPORTANT Close bypass line valve (if used) during purging.
2. Alternative circulator location could be installed on supply piping. Circulator should not be installed at lowest point of piping.
3. There should be no elbows, tees, or change of pipe size for at least 5 diameters of pipe size (see table below) upstream and downstream of flow switch.

Boiler Model	Flow Switch McDonnell & Miller No.	Pipe Size	Minimum Length of Straight Pipe Upstream and Down-Stream of Flow Switch
EH-40	FS8W	1 1/4 IN.	8 1/2 IN.
EH-8 Thru EH-32	FS4-3T3-1	1 IN.	6 1/2 IN.

©Slant/Fin Corp. 2010. Printed in U.S.A. 710 Publication EH-10

Slant/Fin

SLANT/FIN CORPORATION., Greenvale, N.Y. 11548 • www.slantfin.com
Phone: (516) 484-2600 • Fax: (516) 484-5921
In Canada: Slant/Fin LTD/LTEE, Mississauga, Ontario • www.slantfin.ca