

Model Series 35FH Performance Data • Electric Heat

ELECTRIC HEATER

Electric heat coils are available as a factory mounted on the unit discharge. Nailor Electric Coils are tested with the fan terminal in accordance with CSA 236/UL 1995 and meet all the requirements of the NEC. Units and heaters are listed and labeled by the ETL testing Laboratory as an integrated package. A NEMA 1 enclosure with hinges is placed at the side of the fan coil to provide easy access. All motor and heater wiring terminates in the enclosure for single point electrical connection.

STANDARD FEATURES

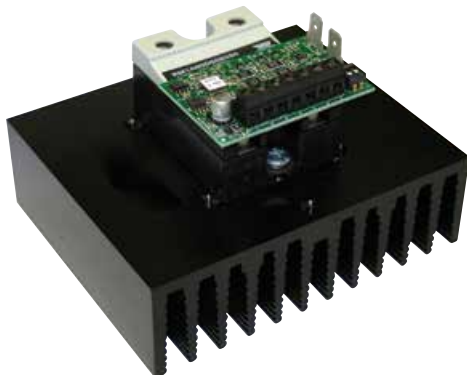
- Automatic reset high limit thermal cut-outs
- Magnetic contactors per stage with DDC or electronic controls
- Control voltage transformer (Class 2) for DDC and electronic controls
- Class A 80/20 Ni/Cr wire.

OPTIONS

- Toggle Disconnect
- Door Interlocking disconnect switch
- Quiet contactors
- Power circuit fusing
- Dust tight control enclosure
- Manual reset secondary high limit
- Airflow Safety Switch, electronic interlock (on EPIC ECM only) or mechanical
- 1 or 2 Stage Electric Heat
- SCR Control for quieter and variable wattage

SCR Control Option

The SCR (Silicon Controlled Rectifier) option provides infinite heater control using a proportional control. In addition to superior comfort and energy savings, contactor noise is eliminated and life of the electric heater element is extended. This option is normally specified with all DDC controls. SSR with 4-20 ma 0-10 Vdc control.



SCR (Silicon Controlled Rectifier)



Electric Heat Selection Tables:

Conventional Staged Heat: 1 or 2 Stage available

Unit Size	1 phase Voltage (Min. – Max.) kW				3 phase Voltage	
	115V	208V	230V	277V	208V	480V
4	1.0 – 2.5				1.0 – 2.5	
6	1.0 – 4.5				1.0 – 4.5	
8	1.0 – 5.0				1.0 – 5.0	
10	2.0 – 4.5	2.0 – 8.5			2.0 – 8.5	
12	2.0 – 4.5	2.0 – 9.0			2.0 – 9.0	
14	2.0 – 4.5	2.0 – 8.5	2.0 – 10.0		2.0 – 10.0	
16	2.0 – 4.5	2.0 – 8.5	2.0 – 9.5	2.0 – 11.0	2.0 – 11.0	
18	2.0 – 4.5	2.0 – 8.5	2.0 – 9.5	2.0 – 11.5	2.0 – 12.0	
20	2.0 – 4.5	2.0 – 8.5	2.0 – 9.5	2.0 – 11.5	2.0 – 14.0	
24	2.0 – 4.5	2.0 – 8.5	4.0 – 9.5	4.0 – 11.5	4.0 – 13.5	4.0 – 16.0

SCR Control

Unit Size	1 phase Voltage Maximum kW				3 phase Voltage Maximum kW	
	115V	208V	230V	277V	208V	480V
4	2.5	2.5	2.5	2.5	2.5	2.5
6	3.0	4.5	4.5	4.5	4.5	4.5
8	3.0	5.0	5.0	5.0	5.0	5.0
10	3.0	5.0	5.5	6.5	8.5	8.5
12	3.0	5.0	5.5	6.5	9	9
14	3.0	5.0	5.5	6.5	10	10
16	3.0	5.0	5.5	6.5	9	11
18	3.0	5.0	5.5	6.5	9	12
20	3.0	5.0	5.5	6.5	9	14
24	3.0	5.0	5.5	6.5	9	16

NOTES:

Minimum kW per Stage = 1kW. For Unit size 4, 6, 8 the total minimum kW per 2 stage E/H is 2kW.

PSC and 3-speed ECM max. kW's are determined by a combination of testing (at low speed airflow) and 48 amp limits (EH amps plus motor FLA).

The SCR kW's are limited to 25 amps. For higher kW the total amps may be exceeded. Contact your local Nailor representative for supplemental fusing and special sizing.