

Series

SUPREME

Electric Furnace



Features

Color Voltage Construction

Fan

Motor

Heating element

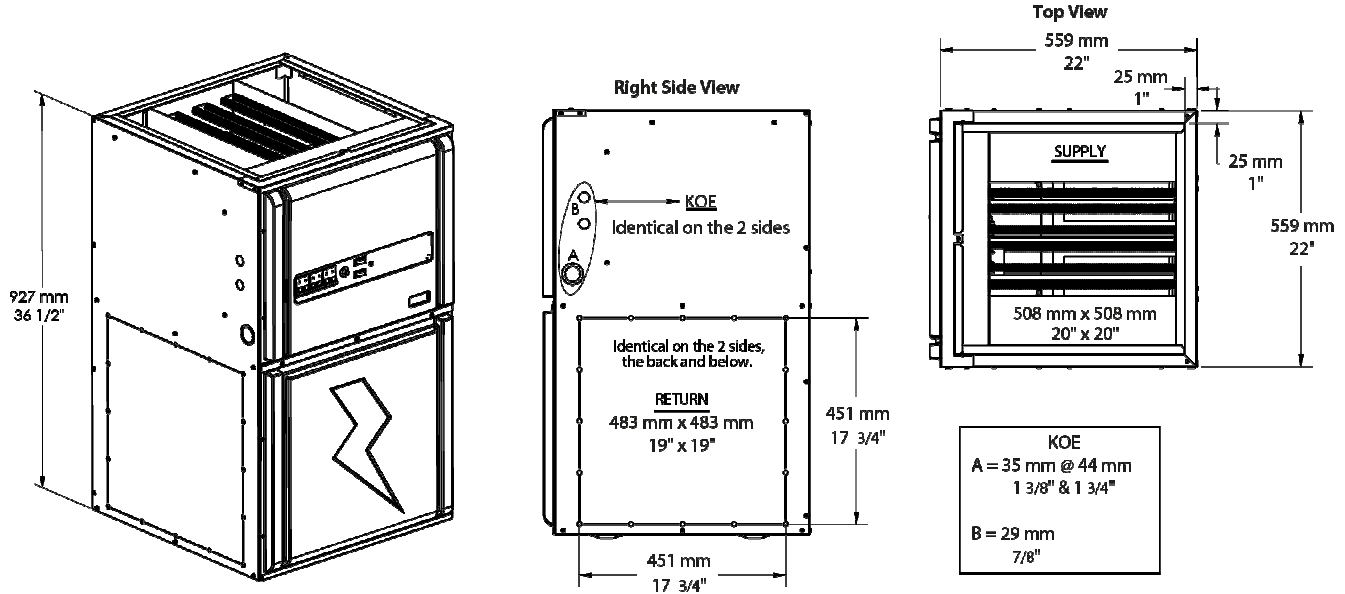
Control

Installation

- Standard: grey (galvanized steel cabinet for *Comfort Series*).
- 240/208V, 1-phase.
- Steel casing, all insulated for reduced heat loss and noise.
- Dual access panels on casing provide easy access to internal parts (*Advantage* and *Modulating* series).
- High quality precision balanced blower for quiet operation and optimal performance.
- Standard motor (PSC), permanently lubricated.
- Variable speed electronically commutated motor (ECM), permanently lubricated.
- Both motors are rubber mounted for maximum vibration and noise reduction.
- Relay and printed circuit board (PCB) control automatic operation of motor and allow for the addition of air conditioning or heat pump.
- Heavy duty, reliable 4kW and 5kW helical coil nickel-chromium alloy wire provide superior heat transfer with unrestricted air flow.
- Heating elements can be individually replaced.
- High-limit temperature control with automatic reset.
- Elements modulation is done by a low voltage printed circuit boards with rectifier/timers to prevent power surges (*Comfort* and *Advantage* series).
- For *Modulating* series: Complete modulation (0 to 100%) using triacs. LCD display control to set fan speeds, temperature rise, and much more.
- Heavy duty 24VAC transformer provides power to relays and controls.
- Easy access built-in breakers with manual reset.
- Thermostat "On" light indicates a call for heat by the thermostat.
- "Speed Selector" switch: "Low" or "High".
- "Fan Selector" switch: "On" or "Off".
- Compatible with 1 or 2-stage thermostat with or without external unit.
- A 120V terminal block also permits installation of accessories such as humidifier and electronic filter (maximum 2A).
- Multi-position installation, sides, back, or bottom air returns.
- Approved for zero clearance installation against combustible surfaces.

Warranty Application

- 5-year warranty against defects.
- For cottages, homes or offices, also approved for mobile homes use. May be installed in a basement, closet, crawl space or any unused area or alcove.



COMFORT SERIES

Models with 120V Standard Motor (PSC)

Product #	Volts (1 ph) 3 wires	kW (BTU/hr)	Amp including motor	Motor HP	Static Pressure at 0.5" W.C.				Weight		Qty
					Motor Speed ²	cfm ³	Max cfm ³	Max cooling (tons)	lb	kg	
SUP10-C120D12	120 - 240/208	10.0 (34120) / 7.5 (25628)	48.3 / 41.8	1/3	Low	595	1150	3	105	48	
SUP15-C120D12	120 - 240/208	15.0 (51180) / 11.3 (38442)	69.0 / 59.7	1/3	Medium/Low	775	1150	3	105	48	
SUP18-C120D12	120 - 240/208	18.0 (61420) / 13.5 (46130)	82.6 / 71.5	1/3	Medium/Low	775	1150	3	105	48	
SUP20-C120D12	120 - 240/208	20.0 (68240) / 15.0 (51256)	89.7 / 77.7	1/3	Medium/High	975	1150	3	105	48	

Models with 240V Standard Motor (PSC)

Product #	Volts (1 ph) 2 wires ¹	kW (BTU/hr)	Amp including motor	Motor HP	Static Pressure at 0.5" W.C.				Weight		Qty
					Motor Speed ²	cfm ³	Max cfm ³	Max cooling (tons)	lb	kg	
SUP10-C240D12	240/208	10.0 (34120) / 7.5 (25628)	44.0 / 35.9	1/3	Low	595	1150	3	105	48	
SUP15-C240D12	240/208	15.0 (51180) / 11.3 (38442)	64.7 / 56.1	1/3	Medium	775	1150	3	105	48	
SUP18-C240D12	240/208	18.0 (61420) / 13.5 (46130)	78.4 / 68.0	1/3	Medium	775	1150	3	105	48	
SUP20-C240D12	240/208	20.0 (68240) / 15.0 (51256)	85.4 / 74.1	1/3	High	1150	1150	3	105	48	

ADVANTAGE SERIES

Models with 120V Standard Motor (PSC)

Product #	Volts (1 ph) 3 wires	kW (BTU/hr)	Amp including motor	Motor HP	Static Pressure at 0.5" W.C.				Weight		Qty
					Motor Speed ²	cfm ³	Max cfm ³	Max cooling (tons)	lb	kg	
SUP10-A120D12	120 - 240/208	10.0 (34120) / 7.5 (25628)	48.3 / 41.8	1/3	Low	595	1150	3	105	48	
SUP15-A120D12	120 - 240/208	15.0 (51180) / 11.3 (38442)	69.0 / 59.7	1/3	Medium/Low	775	1150	3	105	48	
SUP18-A120D12	120 - 240/208	18.0 (61420) / 13.5 (46130)	82.6 / 71.5	1/3	Medium/Low	775	1150	3	105	48	
SUP20-A120D12	120 - 240/208	20.0 (68240) / 15.0 (51256)	89.7 / 77.7	1/3	Medium/High	975	1150	3	105	48	
SUP23-A120D12	120 - 240/208	23.0 (78480) / 17.3 (58944)	103.3 / 89.5	1/3	Medium/High	975	1150	3	105	48	
SUP25-A120D12	120 - 240/208	25.0 (85360) / 18.8 (64070)	110.4 / 95.6	1/3	Medium/High	975	1150	3	105	48	
SUP20-A120D20	120 - 240/208	20.0 (68240) / 15.0 (51256)	94.3 / 81.7	1	Low	1080	2010	5	105	48	
SUP23-A120D20	120 - 240/208	23.0 (78480) / 17.3 (58944)	107.9 / 93.5	1	Low	1080	2010	5	105	48	
SUP25-A120D20	120 - 240/208	25.0 (85360) / 18.8 (64070)	115.0 / 99.6	1	Medium/Low	1400	2010	5	105	48	
SUP27-A120D20	120 - 240/208	27.0 (92130) / 20.3 (69195)	125.1 / 108.4	1	Medium/Low	1400	2010	5	105	48	
SUP30-A120D20	120 - 240/208	30.0 (102432) / 22.5 (76884)	135.7 / 117.6	1	Medium/Low	1400	2010	5	105	48	

Models with 240V Standard Motor (PSC)

Product #	Volts (1 ph) 2 wires ¹	kW (BTU/hr)	Amp including motor	Motor HP	Static Pressure at 0.5" W.C.				Weight		Qty
					Motor Speed ²	cfm ³	Max cfm ³	Max cooling (tons)	lb	kg	
SUP10-A240D12	240/208	10.0 (34120) / 7.5 (25628)	44.0 / 35.9	1/3	Low	595	1150	3	105	48	
SUP15-A240D12	240/208	15.0 (51180) / 11.3 (38442)	64.7 / 56.1	1/3	Medium	775	1150	3	105	48	
SUP18-A240D12	240/208	18.0 (61420) / 13.5 (46130)	78.4 / 68.0	1/3	Medium	775	1150	3	105	48	
SUP20-A240D12	240/208	20.0 (68240) / 15.0 (51256)	85.4 / 74.1	1/3	High	1150	1150	3	105	48	
SUP23-A240D12	240/208	23.0 (78480) / 17.3 (58944)	99.1 / 85.9	1/3	High	1150	1150	3	105	48	
SUP25-A240D12	240/208	25.0 (85360) / 18.8 (64070)	106.1 / 92.0	1/3	High	1150	1150	3	105	48	
SUP20-A240D20	240/208	20.0 (68240) / 15.0 (51256)	88.7 / 76.9	1	Low	970	2030	5	105	48	
SUP23-A240D20	240/208	23.0 (78480) / 17.3 (58944)	102.4 / 88.7	1	Low	970	2030	5	105	48	
SUP25-A240D20	240/208	25.0 (85360) / 18.8 (64070)	109.4 / 94.8	1	Medium/Low	1275	2030	5	105	48	
SUP27-A240D20	240/208	27.0 (92130) / 20.3 (69195)	119.5 / 103.6	1	Medium/Low	1275	2030	5	105	48	
SUP30-A240D20	240/208	30.0 (102432) / 22.5 (76884)	130.2 / 112.8	1	Medium/Low	1275	2030	5	105	48	

Three-Phase Models (PSC Motor)

Product #	Volts (3 ph) 3 wires	kW (BTU/hr)	Amp including motor	Motor HP	Static Pressure at 0.5" W.C.				Weight		Qty
					Motor Speed ²	cfm ³	Max cfm ³	Max cooling (tons)	lb	kg	
SUP24-A2403D12	240/208	24.0 (81891) / 17.3 (61509)	60.4 / 52.3	1/3	High	1150	1150	3	105	48	
SUP30-A2403D20	240/208	30.0 (102432) / 22.5 (76884)	78.1 / 67.7	1	Medium/Low	1275	2030	5	105	48	

Models with Variable Speed Motor (ECM)

Product #	Volts (1 ph) 2 wires ¹	kW (BTU/hr)	Amp including motor	Motor HP	Static Pressure at 0.5" W.C.			Weight		Qty
					cfm ³	Max cfm ³	Max cooling (tons)	lb	kg	
SUP10-A240V12	240/208	10.0 (34120) / 7.5 (25628)	43.7 / 38.6	1/2	Variable	1200	3	105	48	
SUP15-A240V12	240/208	15.0 (51180) / 11.3 (38442)	64.4 / 56.5	1/2	Variable	1200	3	105	48	
SUP18-A240V12	240/208	18.0 (61420) / 13.5 (46130)	78.1 / 68.4	1/2	Variable	1200	3	105	48	
SUP20-A240V12	240/208	20.0 (68240) / 15.0 (51256)	85.1 / 74.5	1/2	Variable	1200	3	105	48	
SUP23-A240V12	240/208	23.0 (78480) / 17.3 (58944)	98.8 / 86.3	1/2	Variable	1200	3	105	48	
SUP20-A240V20	240/208	20.0 (68240) / 15.0 (51256)	88.0 / 77.8	1	Variable	2000	5	105	48	
SUP23-A240V20	240/208	23.0 (78480) / 17.3 (58944)	101.7 / 89.6	1	Variable	2000	5	105	48	
SUP25-A240V20	240/208	25.0 (85360) / 18.8 (64070)	108.7 / 95.7	1	Variable	2000	5	105	48	
SUP27-A240V20	240/208	27.0 (92130) / 20.3 (69195)	118.8 / 104.5	1	Variable	2000	5	105	48	
SUP30-A240V20	240/208	30.0 (102432) / 22.5 (76884)	129.5 / 113.7	1	Variable	2000	5	105	48	

MODULATING SERIES

Models with Variable Speed Motor (ECM)

Product #	Volts (1 ph) 2 wires ¹	kW (BTU/hr)	Amp including motor	Motor HP	Traditionnal Ducts		Smart Ducts		Weight		Qty
					Max cfm ³	Max cooling (tons)	Max cfm ³	Max cooling (tons)	lb	kg	
SUP10-M240V12	240/208	10.0 (34120) / 7.5 (25628)	43.7 / 38.6	1/2	1400	3.5	1000	2.5	105	48	
SUP15-M240V12	240/208	15.0 (51180) / 11.3 (38442)	64.4 / 56.5	1/2	1400	3.5	1000	2.5	105	48	
SUP18-M240V12	240/208	18.0 (61420) / 13.5 (46130)	78.1 / 68.4	1/2	1400	3.5	1000	2.5	105	48	
SUP20-M240V12	240/208	20.0 (68240) / 15.0 (51256)	85.1 / 74.5	1/2	1400	3.5	1000	2.5	105	48	
SUP23-M240V12	240/208	23.0 (78480) / 17.3 (58944)	98.8 / 86.3	1/2	1400	3.5	1000	2.5	105	48	
SUP20-M240V20	240/208	20.0 (68240) / 15.0 (51256)	88.0 / 77.8	1	2200	5.5	1600	4	105	48	
SUP23-M240V20	240/208	23.0 (78480) / 17.3 (58944)	101.7 / 89.6	1	2200	5.5	1600	4	105	48	
SUP25-M240V20	240/208	25.0 (85360) / 18.8 (64070)	108.7 / 95.7	1	2200	5.5	1600	4	105	48	
SUP27-M240V20	240/208	27.0 (92130) / 20.3 (69195)	118.8 / 104.5	1	2200	5.5	1600	4	105	48	
SUP30-M240V20	240/208	30.0 (102432) / 22.5 (76884)	129.5 / 113.7	1	2200	5.5	1600	4	105	48	

Options

Product #	Description	Qty
DFB-SUP	Downflow sub-base	

¹ Can be wired with 3 conductors for 120 – 208/240V supply, to allow direct installation of accessories such as humidifiers.

² Factory settings.

³ Refer to the installation instructions and owner's manual for complete air flow tables.
Standard color is grey.

Wall Controls

Compatible with any low voltage thermostat.



Approval Drawings

Specifications may change without prior notice

Project:	Approval Information
Consultant Engineer:	
Electrician Contractor:	
Distributor:	
Date:	
Contact at Dettson:	
Comments:	