

SUBURBAN MANUFACTURING COMPANY

DYNALINE WITH GAS HEAT - ELECTRIC AIR CONDITIONING SUBMITTAL

DESCRIPTION:

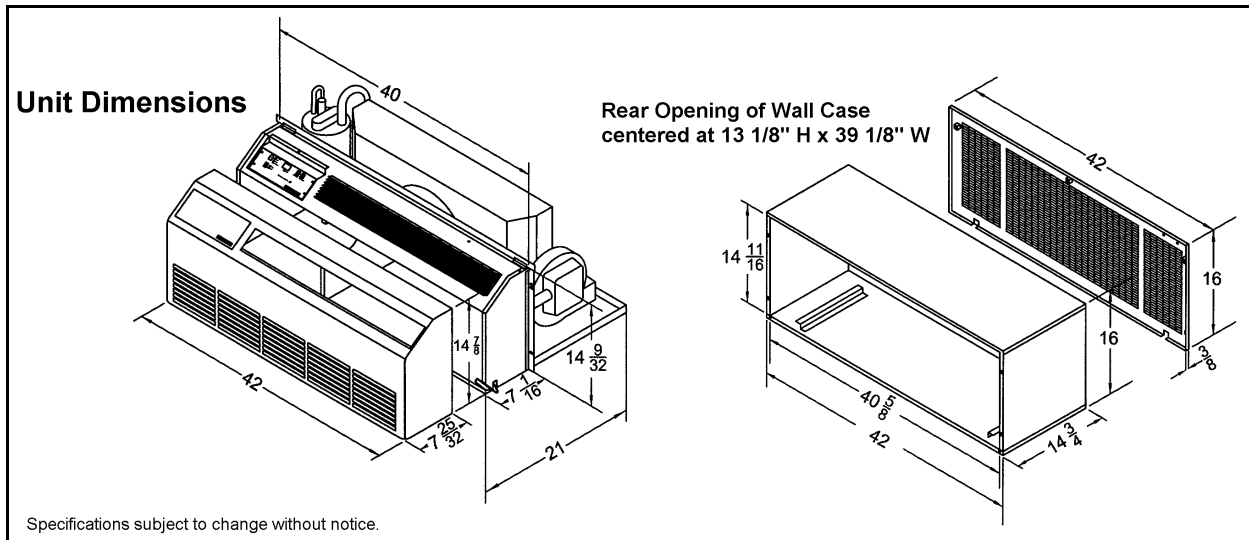
The DL3 is a packaged terminal air-conditioner (PTAC) - a combined GAS heating and electric cooling system designed to serve an individual room or zone.

The system is made up of three separate components: chassis, wall sleeve and grille. Additional accessory items may be necessary to complete an installation.

Unit is designed to provide a steady state heating efficiency in excess of 80%. Air-conditioning efficiency exceeds the requirements of the DOE for packaged terminal air-conditioners. The unit is listed by Underwriters Laboratories and design certified by the Canadian Standards Association.

STANDARD FEATURES

- Digital self-diagnostic control
- Non-mechanical condensate removal system
- Rotary compressor (high efficiency)
- Hot surface ignition
- Integral power venting
- Combustion air safety pressure switch
- Dual solenoid gas valve
- Limit safety switches
- Permanent electrostatic filter
- Baked enamel finish
- 1 year parts and labor limited warranty
- 5 year compressor/heat exchanger limited warranty
- Negative (draw through) combustion
- Low amp draw (.4 amp) heat cycle



Project: _____

City: _____

Estimated Date: _____

LIST QUANTITY OF EACH ITEM :

- Qty.
- ___ DYNALINE DL3-0912
 - ___ DYNALINE DL3-1220
 - ___ DYNALINE DL3-1622
 - ___ NATURAL GAS
 - ___ LP GAS
 - ___ FRONT GAS CONNECTION (STD)
 - ___ REAR GAS CONNECTION (OPTIONAL)
 - ___ STANDARD 14 3/4" WALL SLEEVE
 - ___ ONE PIECE 14 3/4" WALL SLEEVE
 - ___ OPTIONAL EXTENDED WALL SLEEVE
(indicate wall sleeve depth)

- Qty.
- ___ STANDARD ALUMINUM GRILLE
 - ___ OPTIONAL ARCHITECTURAL ALUMINUM
 - ___ OPTIONAL DARK BRONZE ARCH ALUM. GRILLE
 - ___ TOP AIR DISCHARGE ADAPTOR ONLY
 - ___ ADAPTOR EXTENSION ONLY
 - ___ DISCHARGE CONNECTOR
 - ___ SUB-BASE PANEL
 - ___ 24 VOLT HEAT/COOL THERMOSTAT
 - ___ 2 LB REGULATOR
 - ___ LEVELING LEG KIT
 - ___ DRAIN KIT (REAR)
 - ___ DRAIN KIT (BOTTOM)

Specifications

DL3 SERIES

Dynaline™

General Data	DL3-1622	DL3-1220	DL3-0912
Rated heating input (BTU/h)	20,000	18,000	12,000
Rated heating output (BTU/h)	16,000	14,580	9,840
Steady state efficiency	80%	81%	82%
Rated cooling capacity (BTU/h)	16,000	11,700	9,800
Sensible/Latent cooling	65/35	65/35	69/31
EER	10.0	10.0	10.4
Rated air flow: fan only (CFM)	330	280	235
Hi cool/low cool (CFM)	445/330	315/280	265/235
Hi heat/low heat (CFM)	330	315/280	265/235
Weight (Lbs.)	185	180	180
Cabinet color	Champagne Beige		

Minimum Installation Clearances

Outside:			
Rear to nearest obstruction	3 feet	3 feet	3 feet
Top, sides to nearest obstruction	0	0	0
Centerline vent to window	9"	9"	9"
Inside:			
Front to nearest obstruction	12**	12**	12**
Sides to nearest obstruction	1"	1"	1"
Bottom to floor (for return air)	0	0	0
Cabinet top to ceiling	12"	12"	12"

Electrical Data

Volts/Phase/Cycle	208/230-1-60		
Min. wire size (Copper)	#14 AWG	#14 AWG	#14 AWG
Protection-Fused	2-15 amp	2-15 amp	2-15 amp
Protection-Circuit (HACR type)	Dual - 15 amp		
Unit Plug:			
Amps	15 amp	15 amp	15 amp
NEMA Rating	6-15 P	6-15 P	6-15 P
Receptacle:			
Type	Tandem	Tandem	Tandem
Amps	15 amp	15 amp	15 amp
NEMA Rating	6-15 R	6-15 R	6-15 R
Total amps cooling/heating	7.3/1.2	5.7/1.0	4.6/1.0
Total watts cooling/heating	1600/260	1170/150	950/150

Compressor

Type	Hermetic rotary		
Refrigerant type (HCFC)	R22	R22	R22
Refrigerant charge	35 oz.	36 oz.	32 oz.
Rated load amps	6.4	4.8	3.8
Locked rotor amps	38.0	26.3	26
Rated capacity (BTU/h)	15,000	12,000	9,000
Compressor lock-out relay	(Normally closed 24V) 5VA Inrush - 4VA constant		

Specifications subject to change without notice.

Condenser Fan	DL3-1622	DL3-1220	DL3-0912
Fan blade diameter	12"	12"	12"
No. of Blades	4	4	4
Pitch	25 Degrees	25 Degrees	25 Degrees
Condenser Fan Motor RPM	1500	1500	1500
Full load amps	.5	.5	.5

Condenser Coil

Type	Copper/Aluminum		
Coil area	364 sq. inches		
Rows	3	2	2
Fins per inch	15	13	13

Evaporator Coil

Type	Copper/Aluminum		
Coil area	260 sq. inches		
Rows	3	3	3
Fins per inch	11	11	11
Refrigerant metering	Capillary		

Room Air Fan Motor

Speed	2	2	2
RPM high/low	1500/1250	1520/1400	1260/1130
Full load amps	.7	.5	.3
Min. wire size (60° Copper)	#18 AWG	#18 AWG	#18 AWG

Gas Controls and General Data

Gas (specify)	Natural or LP		
Burners	1	1	1
Ignition system: Solid-state	Hot surface		
High limit (fixed)	220°	220°	220°
Blocked Flue Switch	205°	200°	200°
Gas connection size	3/8" IPS	3/8" IPS	3/8" IPS
Gas connection	(LH) front or rear		

Blower/Evaporator

Wheel diameter	5.2"	4.53"	4.53"
Wheel width	26"	26"	26"
Air vent-manual	70 CFM	70 CFM	70 CFM
Required filter (1 each)	8 1/4" x 30 3/4"	6" x 30 3/4"	6" x 30 3/4"
Filter type	electrostatic/washable media		



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