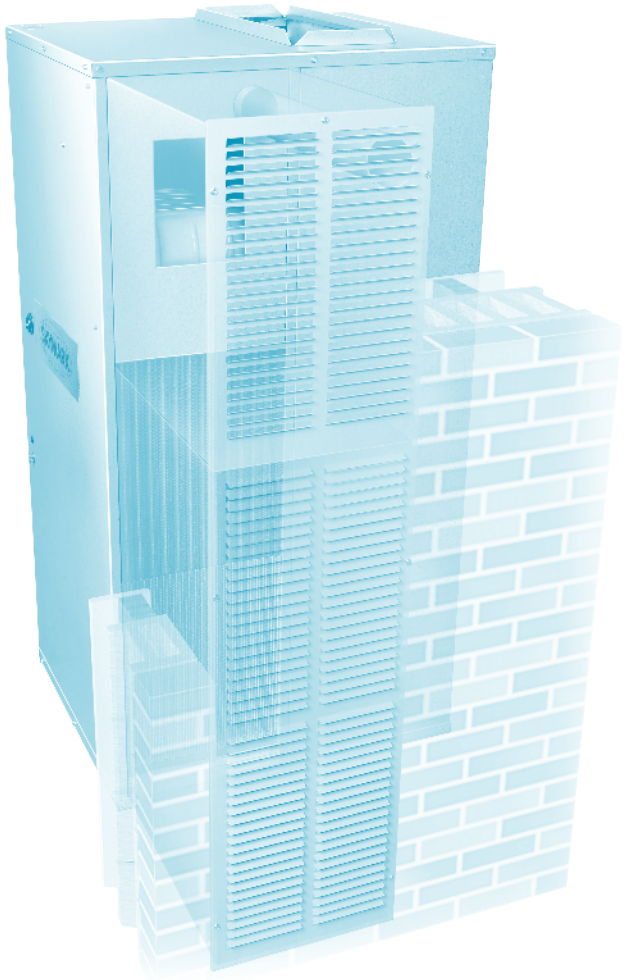
SKYMARK INTERNATIONAL



SKYPAK II
3 TON

HEATING AND COOLING SELF-CONTAINED PACKAGE

SKYPAK II, 3 Ton Series, gives you a complete air-conditioning and heating system as an all in one package unit.

Designed for convenient through-the-wall installation in residential low and high rise, retail, commercial and industrial applications. The all-indoor design eliminates the need for any unsightly exterior equipment, and refrigerant line connections, while maintaining architectural esthetics, protecting the Skypak from weathering and vandalism.

Skypak units are engineered to meet international energy standards. Skymark rigorously tests all equipment to ensure quality control before shipment.

Skypak II Features and Data

- Available in natural gas (direct vent), electric or hot water heating.
- Gas input rating of 80,000 BTUH
- Cooling capacity 36,000 BTUH
- R-410A refrigerant
- Allows independent metering and temperature control, eliminating building-wide service shut downs as encountered with conventional systems
- Primary and secondary aluminized steel tubular heat exchanger provides 80.3% AFUE
- Return air can be ducted if required
- Power vented through wall sleeve, eliminating chimney
- High efficiency scroll compressor.
- Convenient indoor access to all parts and service needs, eliminating bulky chassis removal and spares
- Condensate drain isolated from air stream
- Left hand or right hand unit configuration
- Exterior grille available in five standard colours - or custom colour match (optional)

All components readily available through authorized stocking distributors.

GAS HEAT UNIT DIMENSIONAL & PERFORMANCE DATA

SKYMARK INTERNATIONAL

BASE MODEL NUMBER	SGAE803612
HEATING SECTION (NAT. GAS)	**208-230/1/60**
RATED INPUT - Btu/hr	80,000
OUTPUT CAPACITY -Btu/hr	64,640
CFM	1200
AFUE	80.30%
COOLING SECTION (R-410A)	**208-230/1/60 (197 MIN. OPER. VOLTS)**
BTU/HR T.C.*	36,400
BTU/HR SENSIBLE	28,200
CFM AT 0.50" E.S.P	1200
EFFICIENCY (S.E.E.R.)	13.00
COMPRESSOR R.L.A.	17.0
COMPRESSOR L.R.A.	79
MIN. CIRCUIT AMPACITY	26.85
MAX FUSE/CCT. BKR.	40
SIDE RETURN - FILTER SIZE / TYPE**	2 - 14 in. x 20 in. x 1 in. / Flat Panel
BOTTOM RETURN - FILTER SIZE / TYPE**	24 in. x 30 in. / 1 inch Thick REPLACEABLE MEDIA
APPROX. SHIP. WEIGHT	435

CAUTION: COOLING SECTION OF THIS UNIT SHOULD NOT BE OPERATED WHEN OUTSIDE TEMPERATURE IS BELOW 60°F

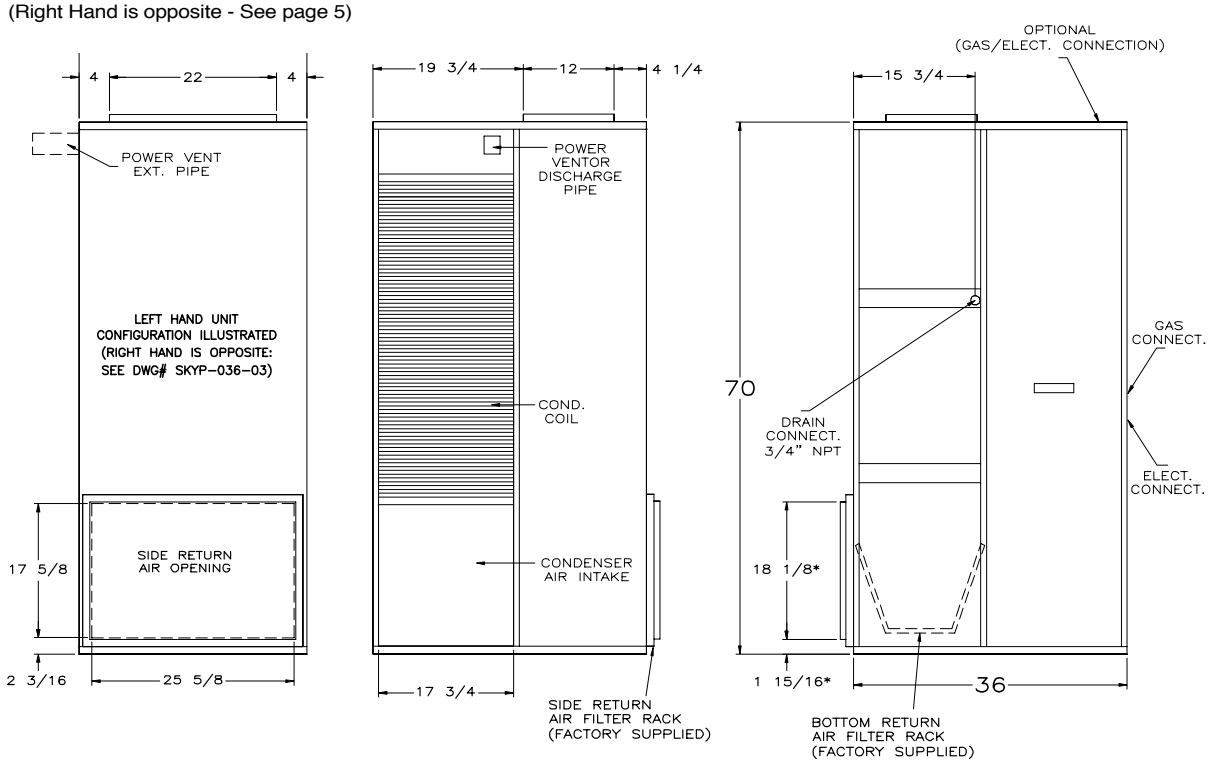
PERFORMANCE TESTED IN ACCORDANCE WITH ARI STANDARD 210/240-94. RATING CONDITIONS OF 95°F OUTDOOR AMBIENT, AND 80°F db / 67°F wb INDOOR AIR TEMPERATURE

* T.C. = NET COOLING CAPACITY (HEAT DISSIPATION FROM FAN MOTOR INCLUDED)

** FACTORY SUPPLIED

LEFT HAND UNIT CONFIGURATION ILLUSTRATED

(Right Hand is opposite - See page 5)



MINIMUM CLEARANCES - FROM COMBUSTIBLE MATERIALS

TOP	SIDES	BACK	FRONT	FLUE
0"	0"	0"	1"	10"

For installation on combustible flooring.
For installation in an alcove or closet.
Minimum clearance for service access - 24" to front of unit.

ELECTRIC HEAT UNIT DIMENSIONAL & PERFORMANCE DATA

MODEL NUMBER	SEAE103612	SEAE153612	SEAE203612
HEATING SECTION	**208-230/1/60**		
KW Total - 208/230	8.42 / 10.28	12.63 / 15.42	16.84 / 20.56
NO. OF ELEMENTS	2	3	4
CFM (MOTOR SPEED)	1200	1200	1200
HEATING OUTPUT MBTU / HR	28.7 / 35.1	43.0 / 52.6	57.4 / 70.1
COOLING SECTION (R-410A)	**208-230/1/60 (197 MIN. OPER. VOLTS)**		
BTU/HR T.C.*	36,400		
BTU/HR SENSIBLE	28,200		
CFM AT .30" E.S.P	1200		
EFFICIENCY (S.E.E.R.)	13.0		
COMPRESSOR R.L.A.	17.0		
COMPRESSOR L.R.A.	79.0		
MIN. CIRCUIT AMPACITY 208V	54.10	79.34	104.58
MAX FUSE/CCT. BKR. 208V	60	80	110
MIN. CIRCUIT AMPACITY 230V	59.17	87.11	115.04
MAX FUSE/CCT. BKR. 230V	60	90	125
SIDE RETURN - FILTER SIZE / TYPE**	2 - 14 in. x 20 in. x 1 in. / Flat Panel		
BOTTOM RETURN - FILTER SIZE / TYPE***	24 in. x 30 in. / 1 inch Thick REPLACEABLE MEDIA		
APPROX. SHIP. WEIGHT	505		

CAUTION: COOLING SECTION OF THIS UNIT SHOULD NOT BE OPERATED WHEN OUTSIDE TEMPERATURE IS BELOW 60°F

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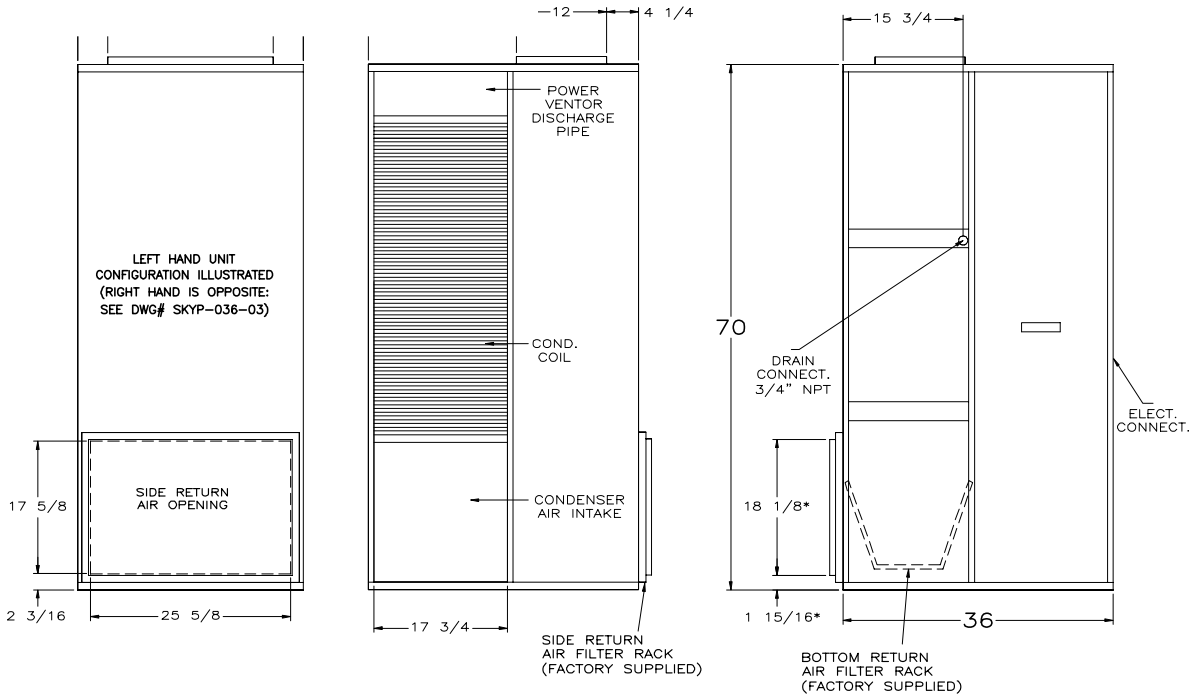
* T.C. = NET COOLING CAPACITY (HEAT DISSIPATION FROM FAN MOTOR INCLUDED)

** FIELD SUPPLIED *** FACTORY SUPPLIED

LEFT HAND UNIT CONFIGURATION ILLUSTRATED

(Right Hand is opposite - See page 5)



MINIMUM CLEARANCES - FROM COMBUSTIBLE MATERIALS

TOP	SIDES	BACK	FRONT
0"	0"	0"	1"

For installation on combustible flooring.
For installation in an alcove or closet.
Minimum clearance for service access - 24" to front of unit.

HYDRONIC HEAT UNIT DIMENSIONAL & PERFORMANCE DATA

SKYMARK INTERNATIONAL

MODEL NUMBER	SWAE036
HEATING SECTION	**HOT WATER COIL**
AREA /ROWS / FPI	2.43 / 2 / 14
FLOW RANGE (USGPM)	4 - 7
WATER CONNECTION SIZE	1/2 in FPT
COOLING SECTION (R-410A)	**208-230/1/60 (197 MIN. OPER. VOLTS)**
BTU/HR T.C.*	36,400
BTU/HR SENSIBLE	28,200
CFM AT .30" E.S.P	1200
EFFICIENCY (S.E.E.R.)	13.0
COMPRESSOR R.L.A.	17.0
COMPRESSOR L.R.A.	79.0
MIN. CIRCUIT AMPACITY	26.85
MAX. FUSE SIZE	40
SIDE RETURN - FILTER SIZE / TYPE**	2 - 14 in. x 20 in. x 1 in. / Flat Panel
BOTTOM RETURN - FILTER SIZE / TYPE***	24 in. x 30 in. / 1 inch Thick REPLACEABLE MEDIA
APPROX. SHIP WHT (LBS.)	515

HEATING OUTPUT [MBh] - 65ºF EAT

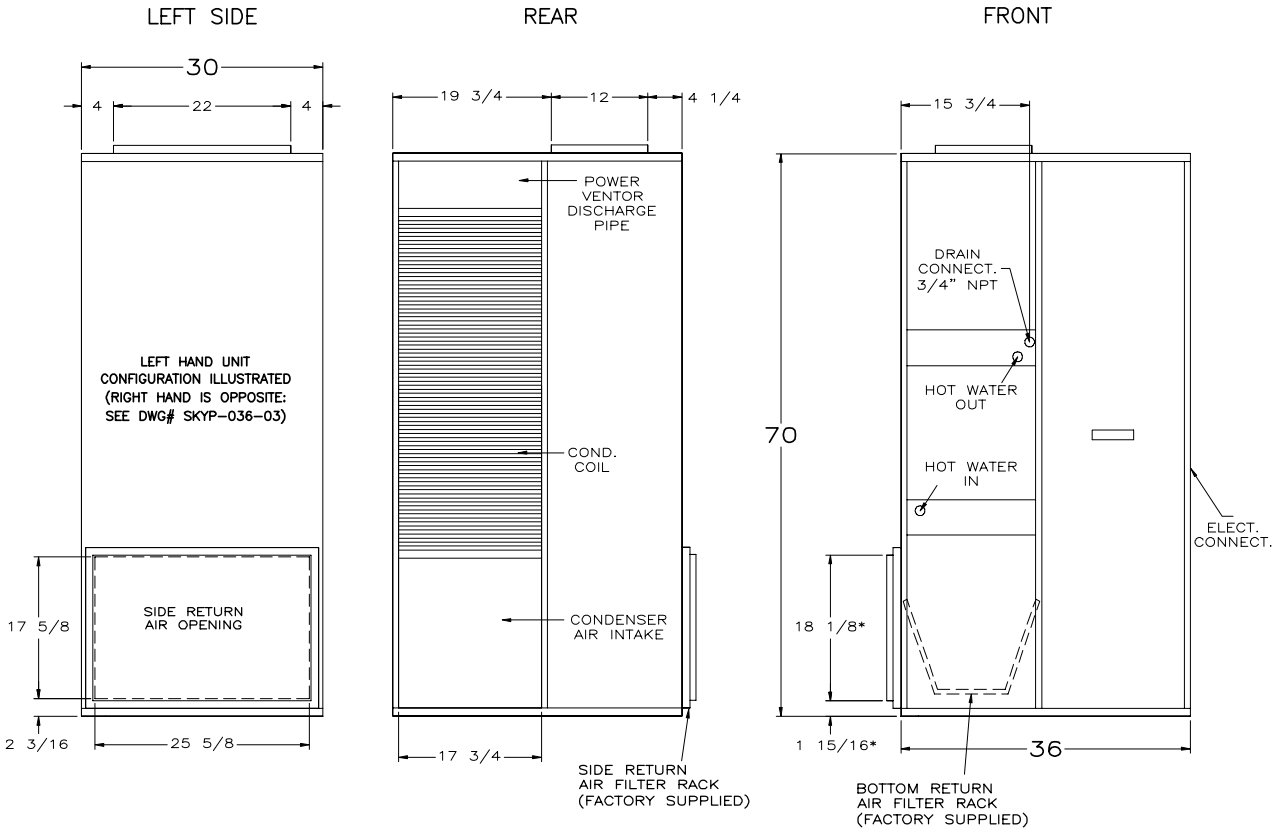
1200 CFM		GPM			
		4	5	6	7
EWT	140ºF	50.6	53.1	55.0	56.3
	160ºF	64.5	64.7	70.0	71.7

CAUTION: COOLING SECTION OF THIS UNIT SHOULD NOT BE OPERATED WHEN OUTSIDE TEMPERATURE IS BELOW 60°F

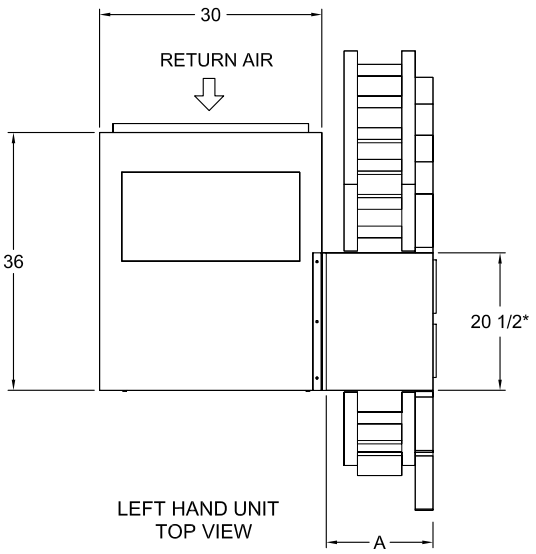
PERFORMANCE TESTED IN ACCORDANCE WITH ARI STANDARD 210/240-94. RATING CONDITIONS OF 95°F OUTDOOR AMBIENT, AND 80°F db / 67°F wb INDOOR AIR TEMPERATURE

* T.C. = NET COOLING CAPACITY (HEAT DISSIPATION FROM FAN MOTOR INCLUDED)

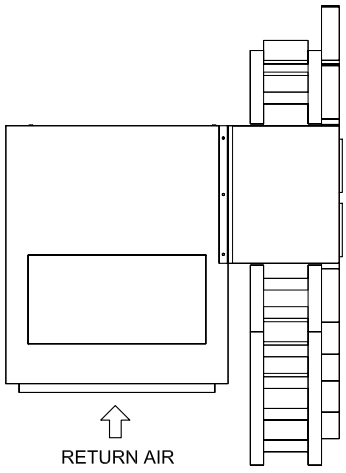
** FIELD SUPPLIED *** FACTORY SUPPLIED



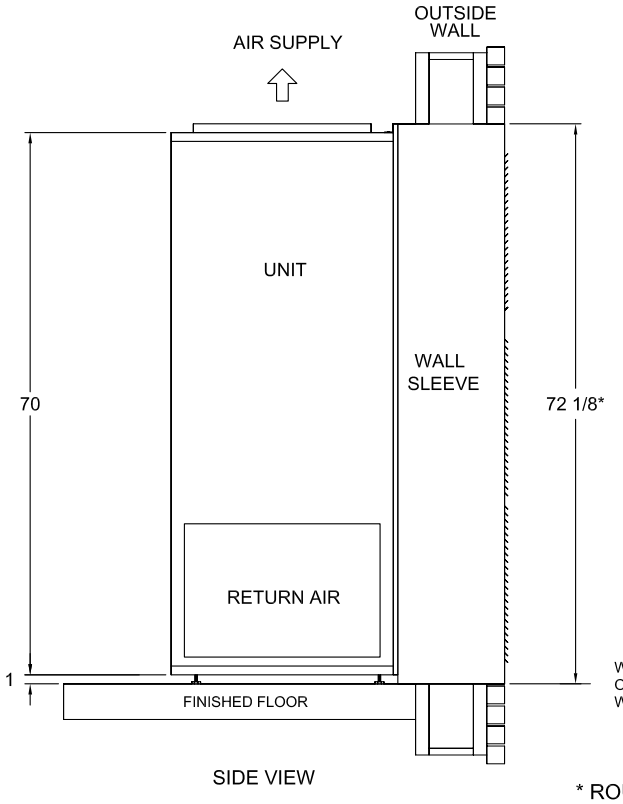
TYPICAL INSTALLATION LAYOUT



LEFT HAND UNIT
TOP VIEW



RIGHT HAND UNIT
TOP VIEW



SIDE VIEW

STANDARD WALL SLEEVE DEPTHS

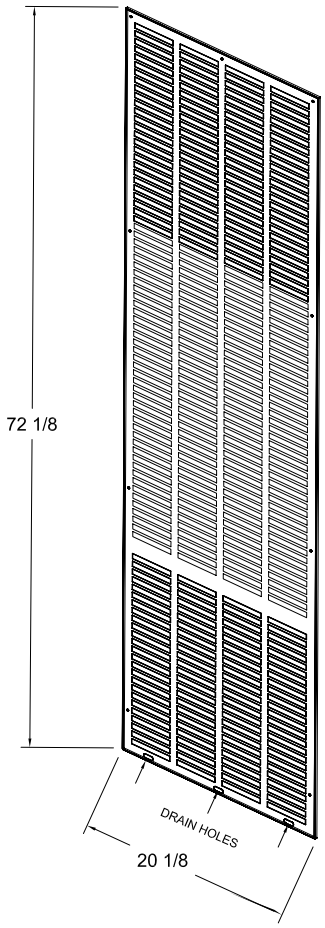
A	6"	8"	10"	12"	14"

* ROUGH-IN OPENING DIMENSIONS

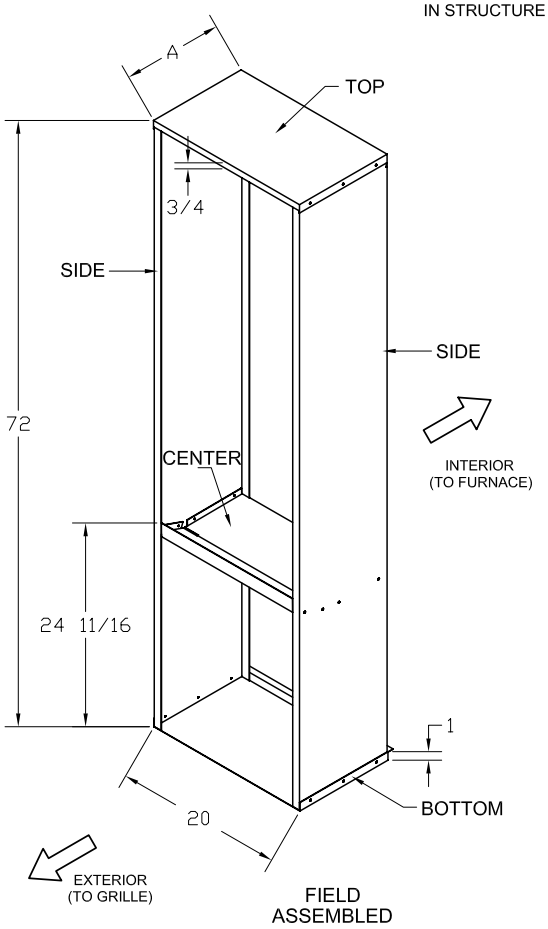
3 TON SKYPAK WALL SLEEVE ASSEMBLY

NOTE:
ALLOW 1/8" CLEARANCE FOR SCREW HEADS AND PROVIDE SUFFICIENT TOLERANCE TO ALLOW FOR ANY DISCREPANCIES AND/OR IRREGULARITIES IN STRUCTURE

WALL SLEEVE GRILLE



WALL SLEEVE



A SLEEVE DEPTHS			
8"	10"	12"	14"

GENERAL

All SKYPAK models feature a complete heating, cooling, and air handling system in one self-contained assembly.Units are shipped completely factory assembled, tested, and ready for field connection. The unit casing is made entirely of heavy gauge galvanized steel. The cabinet interior is fully insulated with foil faced fiberglass insulation, firmly attached with nonflammable adhesive, to prevent heat loss or gain to the interior space. All operating components of the mechanical systems are completely enclosed in the insulated cabinet to minimize sound transmission.

Units are designed for freestanding floor mounting, in conjunction with the companion wall sleeve. Airflow orientation is up-flow, top discharge. Units may be ordered in either left hand, or right hand, return air configuration. The standard return-air opening is factory cut for side-intake. A bottom-intake opening may be ordered; unit will ship with a pre-cut opening in the base, and a solid evaporator side panel.

The outdoor wall grille is available in five standard colors, or may be custom color matched.

COOLING SECTION

The high-efficiency cooling section utilizes a 'Scroll' type refrigerant compressor. Each refrigeration circuit is thoroughly evacuated, and fully charged with R-410A refrigerant before shipment. Internal compressor-motor overload protection is standard. Compressors are mounted on rubber isolators to minimize vibration transmission. A compressor start assist device is included to ensure reliable compressor operation in the event of low supply voltage. The refrigeration circuit includes an externally equalized thermal expansion valve, liquid line filter drier, a high refrigerant pressure switch (manual-reset), and service gauge ports.

The evaporator and condenser coils are constructed of internally enhanced copper tubes mechanically bonded to enhanced aluminum plate fins. The evaporator coil is employed in a blow-through configuration. Large evaporator coil face area maximizes efficiency and cooling performance.

INDOOR FANS

Forward curved, double inlet / double width, belt-driven centrifugal blower is used for indoor air movement. Blower wheel is fabricated of galvanized steel. The high-efficiency PSC motor features permanently lubricated bearings and internal automatic overload protection. The motor / blower assembly is complete with a variable pitch drive pulley for field adjustment of the blower RPM range. The large diameter wheel provides required airflow performance at minimum sound levels.

OUTDOOR FANS

Direct-drive, statically and dynamically balanced 16-inch propeller fans (2) with aluminum blades and electro-coated steel hubs are used in blow-through horizontal discharge arrangement. The dual fan modules are independently removable, for service of the fan assembly or cleaning of the condenser coil surface. Permanently lubricated, totally enclosed motors shall be provided, with built in thermal overload protection. Motors shall be of ball bearing type.

DIRECT VENT GAS FURNACE SECTION

The gas-fired heat exchanger is a tubular aluminized steel design with no-weld construction. The burner section is of the in-shot design, with hot surface ignition. All air for combustion is drawn through the outside wall grille. Flue gases are power vented through the upper wall grille section. Furnace controls include a high limit switch, flame roll out sensor, proved ignition sensor, ventor motor safety switch, and an indoor blower control module. The unit controls are factory wired to a low voltage terminal strip, for connection to a single stage heat/cool thermostat.

FILTERS

Each unit is shipped with a filter rack assembly, complete with filters. The type of filter arrangement shall be one of the following, as determined by the units specified return air configuration:

- A flat-panel filter rack is provided for side return air applications. The rack is shipped inside the unit; to be field installed in the side return opening. One-inch thick throwaway filters (two per unit) are factory provided for the side return rack (Flat Filter Size = 2 - 14 X 20 X 1).

- An internal suspended wire-frame style filter rack, for use with replaceable filter media, is provided for bottom return air applications. A one-inch thick fiberglass media filter is factory provided (Media Size = 24" Wide X 30" Long).

City of New York
Department of Buildings
MEA

Skymark maintains a continuous product improvement policy, therefore specifications are subject to change without notice.

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