

Unit Part # 700057

7.5 Ton Electric Electric

Cooling Performance	
Total capacity	93.0 MBH
Sensible capacity	68.5 MBH
Efficiency (at ARI)	11.20 EER
Integrated eff. (at ARI)	12.20 IEER
Ambient DB temp.	95.0 °F
Entering DB temp.	80.0 °F
Entering WB temp.	67.0 °F
Leaving DB temp.	58.9 °F
Leaving WB temp.	57.2 °F
Power input (w/o blower)	7.02 kW
Sound power	83 dB(A)

Refrigerant	
Refrigerant type	R-410A

Reheat Performance	
Total capacity	40.6 MBH
Sensible capacity	8.3 MBH
Ambient DB temp.	85 °F
Entering DB temp.	75 °F
Entering WB temp.	67 °F
Leaving DB temp.	72.4 °F
Leaving WB temp.	63.1 °F
Power input (w/o blower)	6.20 kW
Gallons of water per hour	3.69 gal/hr

Heating Performance	
Entering DB temp.	60 °F
Heating output capacity (Max)	61.4 MBH
Nominal electric heat	24 kW
Applied electric heat	18.0 kW
Installed	Factory
Supply air	3000 CFM
Leaving DB temp.	79.0 °F
Air temp. rise	19.0 °F
Stages	2

Supply Air Blower Performance	
Supply air	3000 CFM
Ext. static pressure	0.6 IWG
Addl. Unit Losses (Options/Accessories)	0.20 IWG
Blower speed	1280 RPM
Max BHP of Motor (including service factor)	3.45 HP
Duct location	Bottom
Motor rating	3.00 HP
Actual required BHP	2.08 HP
Power input	1.94 kW
Elevation	0 ft.
Drive type	BELT

Electrical Data	
Power supply	208-3-60
Unit min circuit ampacity	74.5 Amps
Unit max over-current protection	80 Amps

Dimensions & Weight			
Hgt	42 in.	Len	89 in.
Wth			59 in.
Weight with factory installed options	1006 lbs.		

Clearances					
Right	12 in.	Front	36 in.	Back	36 in.
Top	72 in.	Bottom	0 in.	Left	36 in.

Note: Please refer to the tech guide for listed maximum static pressures



7.5 Ton

- DriFecta units are manufactured at an ISO 9001 registered facility and each rooftop is completely computer-run tested prior to shipment.

Unit Features

- Unit Cabinet Constructed of Powder Painted Steel, Certified At 1000 Hours Salt Spray Test (ASTM B-117 Standards)
- Through-the-Curb and Through-the-Base Utility Connections
- Either supply and/or return can be field converted from vertical to horizontal configuration without cutting panels.
- Full perimeter base rails with built in rigging capabilities
- Hinged Access Panels
- Standard Cabinet with Composite Drain Pan
- Scroll Compressors
- Two Stage Cooling
- Solid Core Liquid Line Filter Driers
- Microchannel Condenser Coil
- Standard Evaporator Coil
- 24 kW Factory Installed Electric Heat
- 3 HP High Static Belt Drive Blower
- Unit Ships with 2" Throwaway Filters with a Standard Filter Rack that will Accept up to 4" Filters
- Replacement Filters: 4 - (24" x 16"). Unit accepts 2" or 4" wide filters.
- Single Point Power Connection
- Short Circuit Current: 5kA RMS Symmetrical

Standard Unit Controller: Simplicity Control Board

- An Integrated Low-Ambient Control, Anti-Short Cycle Protection, Lead-Lag, Fan On and Fan off Delays, Low Voltage Protection, On-Board Diagnostic and Fault Code Display. Allows all units to operate in the cooling mode down to 0 °F outdoor ambient without
- Safety Monitoring - Monitors the high and low-pressure switches, the freezestats, the gas valve, if applicable, and the temperature limit switch on gas and electric heat units. The unit control board will alarm on ignition failures, safety lockouts and re

Warranty

- One (1) Year Limited Warranty on the Complete Unit
- Five (5) Year Warranty - Compressors and Electric Heater Elements



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Consolidated Drawing

TONNAGE	OPERATING WEIGHT (LBS) (BASE UNIT)			CENTER OF GRAVITY LOCATION (BASE UNIT)				4 POINT CORNER LOADS (LBS) (BASE UNIT)							
	U	V	Y	X	Y	A	B	C	D						
6.5	ZF	860	390	38	[965]	24	[610]	200	[911]	149	[68]	218	[99]	292	[133]
7.5	ZF	880	399	38	[965]	24	[610]	205	[93]	153	[69]	223	[101]	299	[136]
5	ZH	864	393	40	[1016]	26	[660]	210	[95]	171	[78]	217	[99]	266	[121]
6.5 & 7.5	ZH	910	413	38	[965]	24	[610]	212	[96]	158	[72]	230	[104]	309	[140]
5	ZJ	770	349	40	[1016]	24	[610]	172	[78]	141	[64]	205	[93]	251	[114]
4	ZR	880	399	40	[1016]	26	[660]	214	[97]	174	[79]	221	[100]	271	[123]
5	ZR	868	394	40	[1016]	26	[660]	211	[96]	172	[78]	218	[99]	267	[121]
6.5	ZR	957	435	38	[965]	23	[584]	214	[97]	161	[73]	249	[113]	333	[151]
7.5	ZR	965	438	38	[965]	23	[584]	216	[98]	161	[73]	251	[114]	337	[153]
3	ZT	922	418	42.4	[1077]	24.7	[627]	202	[92]	184	[84]	255	[116]	281	[128]
4	ZT	960	436	42.5	[1080]	25.5	[648]	217	[98]	198	[90]	260	[118]	285	[129]
5	ZT	968	439	41.6	[1057]	25.5	[648]	223	[101]	196	[89]	257	[117]	293	[133]

- NOTES:
- FOR OUTDOOR USE ONLY.
 - WEIGHTS SHOWN ARE FOR COOLING ONLY UNITS.
 - MIN. CLEARANCES TO BE:
RIGHT SIDE: 12 [305]
LEFT SIDE: 36 [915]
FRONT: 36 [915]
REAR: 36 [915]
TOP: 72 [1830]
BOTTOM: 0 [0]

- TO REMOVE THE SLIDE-OUT DRAIN PAN, A REAR CLEARANCE OF 60 in (1525 mm) IS REQUIRED. IF SPACE IS UNAVAILABLE, THE DRAIN PAN CAN BE REMOVED THROUGH THE FRONT BY SEPARATING THE CORNER WALL.
- FOR SMALLER SERVICE AND OPERATIONAL CLEARANCES CONTACT YOUR APPLICATION ENGINEERING DEPARTMENT.
- DOWNFLOW DUCTS DESIGNED TO BE ATTACHED TO ACCESSORY ROOF CURB ONLY. IF UNIT IS MOUNTED SIDE SUPPLY, IT IS RECOMMENDED THAT THE DUCTS ARE SUPPORTED BY CROSS BRACES, AS DONE ON ACCESSORY ROOF CURBS. SIDE DUCT FLANGES ARE 0.75" HIGH.
- BOTTOM DUCTS DO NOT HAVE FLANGES.
- MINIMUM CONDENSATION TRAP HEIGHT SHALL BE 1.5 TIMES THE LOWEST NEGATIVE STATIC.
- DIMENSIONS IN [] ARE IN MILLIMETERS OR KILOGRAMS.
- OPTIONAL COIL GUARDS, POWER EXHAUST, GAS HEAT ECONOMIZER, DISCONNECT SWITCH, CONVENIENCE OUTLET, AND BAROMETRIC RELIEF & FRESH AIR HOODS SHOWN. DELETED.
- 8 TUBE HEAT EXCHANGER IS NOT AVAILABLE FOR 3 & 4 TON UNITS.

