



TRANE®

Packaged Rooftop Air Conditioners

**IntelliPak™ Rooftops with
Evaporative-Cooled Condensers
24 - 116 Tons – 60 Hz**





Introduction

IntelliPak™ Rooftops with Evaporative-Cooled Condensers

Why Choose IntelliPak with Evaporative-Cooled Condenser?

For building owners and tenants the cost of energy for air conditioning may be their single, largest annual operating expense. Businesses continually seek energy efficient technologies that provide relief from these rising costs.

In many applications, the energy saving benefits of evaporative-cooled condensing reduces annual operating costs significantly enough to provide short-term payback on the initial investment. After the payback, it's all savings.

Reduced operating expense and worry-free comfort has convinced many building owners that packaged rooftop equipment with evaporative-cooled condensing is the right choice for their buildings.

Only Trane offers its years of experience, along with a tradition for technology and innovation, to bring total comfort to every building space. This specially designed IntelliPak Rooftop with evaporative-cooled condenser is a part of that tradition.

Trane's legacy for quality products and reliable performance carries through with this energy efficient solution for today's building systems.





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Features and Benefits

This catalog contains information relating to IntelliPak evaporative-cooled condensers. For expanded details on IntelliPak rooftops, please see the standard Trane catalog RT-PRC010-EN.

What is evaporative-cooled condensing?

Unlike air to air condensers, evaporative-cooled condensing is dependent on the ambient wet bulb, rather than dry bulb temperature. Wet bulb is generally several degrees lower than dry bulb temperature. Utilizing the lower wet bulb temperature to condense the refrigerant vapor can dramatically decrease compressor power consumption.

Evaporative-cooled condensers, like air-cooled, are designed with heat exchangers and fans. They also require a sump or basin to contain re-circulating water, a pump and water spray system. By re-circulating water over the condenser coils the heat transfer process is more efficiently maximized. As fresh air is drawn over the wet coils, heat is rejected into the atmosphere and the water used in the heat transfer process evaporates.

Because the wet bulb temperature is lower than dry bulb, condensing temperatures are naturally lowered. Lower condensing temperatures increase the system thermal efficiency by reducing compressor discharge pressure, which in turn reduces compressor energy usage.

Since evaporative-cooled condensers are typically more efficient than air-cooled, less coil surface area and airflow are required. This means reduced outdoor sound levels and even further energy savings.

Solidly Efficient

The IntelliPak evaporative-cooled condenser combines a cooling tower shell with a multiple circuit heat exchanger and a variable speed drive controlled fan motor. Condenser coils are supported by a structural, welded aluminum frame and nested in a low

density, UV resistant, molded plastic housing.

Refrigerant gas enters each coil set where a three-dimensional, no clog, water spray wets the entire coil surface. Upward moving air is drawn over the wetted surface via a highly efficient large diameter composite propeller fan powered by a totally enclosed fan-cooled, variable speed drive controlled motor. The evaporative effect releases heat from the condenser coils to the atmosphere and the contained refrigerant gas condenses to liquid.

Self-Cleaning

The unique Trane evaporative condenser design greatly reduces mineral scale buildup. Unlike ordinary evaporative-cooled condensers, the design allows the coils to flex during the refrigeration cycle; flexing creates a dynamic surface that reduces potential for scale buildup.

As the coils flex, mineral deposits that may be left behind in the evaporation process are rinsed away by the continuous water spray. Normally, no chemicals are needed and only minor annual maintenance may be required. Any scale present in the re-circulating water passes harmlessly through the sump pump and the unique, non-clogging cyclone jets.

Any mineral deposits that may remain in the sump can be periodically flushed away.

In areas with high mineral concentrations in supply water, customers may desire some level of chemical treatment to minimize scale buildup.



Features and Benefits

Shielded from UV Rays

The evaporative condenser is almost totally shielded from algae-promoting UV rays by its high-density shell and mist eliminators. The IntelliPak exterior louvered side panels and enclosed top panels provide further protection from sunlight.

Unlike heavy zinc coated evaporative-cooled condensers, Trane's condenser coils are designed with continuous copper tubing and require no corrosion protection. The exposed copper acts as a natural agent to inhibit algae growth.

For areas with local codes requiring treatment, Trane offers optional chemical feeder systems.

The IntelliPak with evaporative-cooled condenser is an engineered product specifically designed to save energy dollars, while delivering quiet, cool comfort.

Trane Evaporative-Cooled Condenser Features

- Higher energy efficiency
- Low water usage
- Low sound levels when compared to air-cooled condensers
- Fewer internal solder joints
- Non-clogging water spray nozzles
- Easy maintenance access
- Corrosion resistance
- Copper coils
- Non-corroding construction
- Single or dual circuits
- Scale shedding coils
- Strong and resilient housing
- Low ambient control

- Condenser fan control
- Ambient changeover thermostat

Evaporative-Cooled Condenser Options

- Sump flush water saving control
- Sump heater

Choose Evaporative-Cooled Condensers

The IntelliPak Rooftop with evaporative-cooled condensers is an outstanding choice for:

- Areas with high energy costs
- Areas with restricted water usage, up to 40% less water usage with sump flush control
- Hot, dry climates
- Applications requiring reduced noise

This rooftop line is a natural and efficient comfort choice for Shopping Malls, Office Buildings and other small, medium and large commercial / industrial applications.



Application Considerations

This catalog contains information relating to IntelliPak evaporative-cooled condensers. For expanded details on IntelliPak rooftops, please see the standard Trane catalog RT-PRC010-EN.

Water Supply

Suspended particulate matter, mineral concentrations, trash and debris can adversely affect performance of any water-cooled device. If not managed, mineral concentrations can result in clogged water system hardware, heat exchanger restriction and heat transfer loss. Trane's evaporative-cooled condenser is designed to greatly minimize performance problems that may occur from the by-products of water evaporation.

Incoming Water Supply Line

A float valve is provided to maintain sump water level during condenser operation. A field installed gate valve may be installed on the condenser water supply line. An 80 to 100 mesh field supplied strainer may be installed in the condenser water supply line to help prevent the introduction of debris. The condenser water supply line should be flushed thoroughly prior to connection to the unit. Local codes may require back-flow prevention on the condenser water supply line.

Water Discharge and Drain Line

Care and judgment should be exercised in selecting a water discharge site.

Local Site Discharge: Rooftop or simple storm sewer discharge is generally acceptable. Do not routinely direct sump discharge onto areas where the byproducts of water evaporation or water treatment products are undesirable.

Sewer Discharge: The quantities of mineral and debris in the discharge water are actually very small, and do not cause problems when diluted in normal sewer flow. Check local codes to identify any special requirements for sewer discharge.

Regardless of the disposal method used, local codes, state or federal standards for water disposal must be followed.

Freeze Protection

For operation in ambient temperatures below 32 F, optional sump heaters and controls are available to provide operation down to 20 degrees and 0 degrees F. In colder climates water supply line and drain piping may require field installed freeze protection. Generally low wattage heat tape on the water lines is sufficient protection.

Make-up Water Considerations

Traditional bleed method: This method is employed with conventional evaporative condensers. Water is continuously drained and replaced to help reduce mineral concentrations in the condenser sump. Water level is maintained by internal float valve. Although not required with Trane's evaporative cooled condenser, the bleed method can be utilized. Water is usually drained from the sump at a rate equal to the rate of evaporation.

Water saver method: A programmable flush cycle is initiated to remove mineral deposits and particulates from the sump. Fresh water can be cycled into the sump up to 12 times every 24 hours. Water level is maintained by internal float valve. The bleed method can be combined with the water saver method, but is not necessary. The water saver method can reduce water usage up to 40%.

Water Treatment Considerations

Local codes may require the use of chemicals for water treatment. Different chemical feeder systems are available to fit a wide variety of requirements and budgets. Check with local code officials to determine requirements for your installation.



Selection Procedure

Model Numbers

Selection Procedure

This section outlines a step-by-step procedure that may be used to select a Trane single-zone air conditioner. For additional selection information, please see RT-PRC010-EN.

The sample selection is based on the following conditions:

- Summer outdoor design conditions — 95 DB/75 WB ambient temperature
- Summer room design conditions — 78 DB/65 WB
- Total cooling load — 430 MBh (35.8 tons)
- Sensible cooling load — 345 MBh (28.8 tons)
- Outdoor air ventilation load — 66.9 MBh (5.6 tons)
- Return air temperature — 80 DB/67 WB

Winter Design:

- Winter outdoor design conditions — 0 F
- Return air temperature — 70 F
- Total heating load — 475 MBh
- Winter outdoor air ventilation load — 133 MBh

Air Delivery Data:

- Supply fan cfm — 18,000 cfm
- External static pressure — 1.2 in wg
- Minimum outdoor air ventilation — 1,800 cfm
- Exhaust fan cfm — 12,000 cfm
- Return air duct negative static pressure — 0.65 in wg

Electrical Characteristics:

- Voltage/cycle/phase — 460/60/3 Unit Accessories:
- Gas fired heat exchanger — high heat module
- Throwaway filters
- Economizer
- Modulating 100 percent exhaust/return fan

COOLING CAPACITY SELECTION

Step 1 — Nominal Unit Size Selection

A summation of the peak cooling load and the outside air ventilation load shows: 430 MBh + 66.9 MBh = 496.9 MBh (41.4 tons) required unit capacity.

From Table PD-4 a 48 ton unit capacity with standard capacity evaporator coil at 80 DB/67 WB, 95 F outdoor air temperature and 18,000 total supply cfm is 675 MBh total and 488 MBh sensible. Thus, a nominal 48 ton unit with standard capacity evaporator coil is selected.

Step 2 — Evaporator Coil Entering Conditions

Mixed air dry bulb temperature determination:

Using the minimum percent of OA (1,800 cfm ÷ 18,000 cfm = 10 percent),

determine the mixture dry bulb to the evaporator.

$$RADB + \% OA (OADB - RADB) = 80 + (0.10) (95 - 80) = 80 + 1.5 = 81.5 F$$

"Approximate" wet bulb mixture temperature:

$$RAWB + \% OA (OAWB - RAWB) = 67 + (0.10) (75 - 67) = 65 + 1.1 = 66.1 F$$

UNIT ELECTRICAL REQUIREMENTS

Selection procedures for electrical requirements for wire sizing amps, maximum fuse sizing, and dual element fuses are given in the electrical service section of this catalog.

Model Numbers

S * H F

S * H G

For this tonnage evaporative-cooled condenser unit:

Order this Standard IntelliPak unit

24Ton	S_HFC20* w/Hi Cap Evaporator Coil Option
30Ton	S_HFC25* w/Hi Cap Evaporator Coil Option
36Ton	S_HFC30* w/Hi Cap Evaporator Coil Option
48Ton	S_HFC40* w/Hi Cap Evaporator Coil Option
59Ton	S_HFC50* w/Hi Cap Evaporator Coil Option
70Ton	S_HFC55* w/Hi Cap Evaporator Coil Option
73Ton	S_HFC60* w/Hi Cap Evaporator Coil Option
80Ton	S_HFC75* w/Standard Evaporator Coil
90Ton	S_HFC75* w/Hi Cap Evaporator Coil Option
107Ton	S_HGC90* w/Hi Cap Evaporator Coil Option
116Ton	S_HGD11* w/Hi Cap Evaporator Coil Option

This catalog contains information relating to IntelliPak evaporative-cooled condensers. For expanded details on IntelliPak rooftops, please see the standard Trane catalog RT-PRC010-EN.



General Data

Table GD-1— General Data — 24-48 Tons

	24 Ton	30 Ton	36 Ton	48 Ton
Compressor Data³				
Number/Size (Nominal)	2/10 Ton	1/10 Ton, 1/15 Ton	2/15 Ton	4/10 Ton
Model	Scroll	Scroll	Scroll	Scroll
Unit Capacity Steps (%)	100/50	100/40	100/50	100/75/50/25
RPM	3450	3450	3450	3450
Evaporator Fans				
Number/Size/Type	2/15"/FC	2/15"/FC	2/18"/FC	2/20"/FC
Number of Motors	1	1	1	1
Hp Range	3-15	3-15	5-20	7½-30
Cfm Range ¹	4000-9000	5000-11000	6000-13500	8000-18000
ESP Range — (In. WG)	0.25-4.0	0.25-4.0	0.25-4.0	0.25-4.0
Exhaust Fans	50% 100%	50% 100%	50% 100%	50% 100%
Number/Size/Type	1/15"/FC	2/15"/FC	1/15"/FC	2/18"/FC
Hp Range	1.5-3	1.5-3	1.5-3	5-7.5
Cfm Range	2000-6000	4000-10000	4000-12000	4000-14000
ESP Range — (In. WG)	0.25-1.4	0.2-2.0	0.25-1.4	0.2-2.0
Evaporative-Cooled Condenser Fans				
Number/Size/Type	1/42"/Prop	1/42"/Prop	1/42"/Prop	1/47.5"/Prop
Hp (Each) ⁶	2	3	3	3
Rpm / Cfm	1200/6,250	1200/7,500	1200/10,000	1200/13,750
Cycle/Phase	60/3	60/3	60/3	60/3
Evaporator Coil — High Capacity				
Size (Ft)	20.3	20.3	24.4	32.5
Rows/Fin Series	4/148	4/148	4/148	4/148
Tube Diameter/Surface	½/Enhanced	½/Enhanced	½/Enhanced	½/Enhanced
Copper Condenser Fins (Optional)	3/144/¾ ₈	3/144/¾ ₈	3/144/¾ ₈	3/144/¾ ₈
Electric Heat				
KW Range ²	30-110	30-130	30-150	50-170
Capacity Steps:	3	3	3	3
Natural Gas Heat				
Standard Gas Heat				
Low Heat Input	235	235	350	350
High Heat Input	500	500	500	850
Standard Heating Capacity Steps:	2	2	2	2
Modulating Gas Heat (Not Available on 24-48 Ton Models with Low Heat)				
High Heat - Limited Modulation ⁴	See Table GD-5	See Table GD-5	See Table GD-5	See Table GD-5
Heat Exchanger Type	Standard	Standard	Standard	Standard
High Heat - Full Modulation ⁵	See Table GD-5	See Table GD-5	See Table GD-5	See Table GD-5
Heat Exchanger Type	Stainless Steel	Stainless Steel	Stainless Steel	Stainless Steel
Hot Water Coil				
Size (Inches)	30x66x2 Row	30x66x2 Row	30x66x2 Row	42x66x2 Row
Type	5W Prima-Flo E w/turbolators			
High Heat (Fins/Ft)	110	110	110	110
Low Heat (Fins/Ft)	80	80	80	80
Steam Coil				
Size (Inches)	30x66x1 Row	30x66x1 Row	30x66x1 Row	30x66x1 Row & 12x66x1 Row
Type	Type NS	Type NS	Type NS	Type NS
High Heat (Fins/Ft)	96	96	96	96
Low Heat (Fins/Ft)	42	42	42	42



General Data

Table GD-1— General Data — 24-48 Tons Continued

	24 Ton	30 Ton	36 Ton	48 Ton
Filters				
Panel Filters				
Number/Size (Inches)	12 — 20x20x2	12 — 20x20x2	16 — 20x20x2	16 — 20x25x2
Face Area (Ft)	33.3	33.3	44.4	55.5
Bag Filters				
Number/Size (Inches)	4 — 12x24x19 3 — 24x24x19	4 — 12x24x19 3 — 24x24x19	2 — 12x24x19 6 — 24x24x19	5 — 12x24x19 6 — 24x24x19
Cartridge Filters	4 — 12x24x12 3 — 24x24x12	4 — 12x24x12 3 — 24x24x12	2 — 12x24x12 6 — 24x24x12	5 — 12x24x12 6 — 24x24x12
Prefilters (For Bag & Cartridge)	4 — 12x24x2 3 — 24x24x2	4 — 12x24x2 3 — 24x24x2	2 — 12x24x2 6 — 24x24x2	5 — 12x24x2 6 — 24x24x2
Face Area (Ft)	20	20	28	34
Standard Unit Minimum Outside Air Temperature For Mechanical Cooling				
Without Hot Gas Option	55 F	50 F	50 F	55 F
With Hot Gas Option	55 F	50 F	50 F	55 F
Low Ambient Option Minimum Outside Air Temperature				
Without Hot Gas Option	0 F	0 F	0 F	0 F
With Hot Gas Option	10 F	10 F	10 F	10 F

Notes:

1. For cfm values outside these ranges, refer to RT-EB-104.
2. Refer to Table PD-30 in standard catalog RT-PRC010-EN for availability of electric heat kw ranges by voltage.
3. 24-30 Ton models are single circuit, 48 Ton models are dual circuit.
4. The firing rate of the unit can vary from 33% of the Heater Mbh up to the nameplate rating of the unit.
5. The firing rate of the unit can vary from pilot rate of 125,000 Btuh up to the nameplate rating of the unit.
6. Condenser fan motors are totally enclosed, fan cooled (TEFC).



General Data

Table GD-2 — General Data — 59-90 Tons

	59 Ton	70 Ton	73 Ton	80-90 Ton
Compressor Data³				
Number/Size (Nominal)	2/10, 2/15 Ton	4/15 Ton	4/15 Ton	4/10, 2/15 Ton
Model	Scroll	Scroll	Scroll	Scroll
Unit Capacity Steps (%)	100/80/60/30	100/75/50/25	100/75/50/25	100/72/44/22
RPM	3450	3450	3450	3450
Evaporator Fans				
Number/Size/Type	2/20"/FC	2/20"/FC	2/22"/FC	2/22"/FC
Number of Motors	1	1	1	1
Hp Range	7½-30	7½-30	10-40	10-40 ⁶
Cfm Range ¹	10000-22500	12000-24000	14000-27000	16000-27000
ESP Range — (In. WG)	0.25-4.0	0.25-4.0	0.25-4.0	0.25-4.0
Exhaust Fans	50%	100%	50%	100%
Number/Size/Type	1/18"/FC	2/18"/FC	1/18"/FC	2/20"/FC
Hp Range	5-7.5	5-15	5-7.5	5-7.5
Cfm Range	3000-11000	9000-20000	3000-11000	10000-21500
ESP Range — (In. WG)	0.25-1.4	0.2-2.0	0.25-1.4	0.2-2.0
Evaporative-Cooled Condenser Fans	50%	100%	50%	100%
Number/Size/Type	1/47.5"/Prop	1/47.5"/Prop	1/47.5"/Prop	1/47.5"/Prop
Hp (Each) ⁷	5	5	7.5	7.5
Rpm / Cfm	1200/16,250	1200/18,750	1200/20,000	1200/25,000
Cycle/Phase	60/3	60/3	60/3	60/3
Evaporator Coil — Standard				
Size (Ft.)	N/A	N/A	N/A	43.1
Rows/Fin Series	N/A	N/A	N/A	4/148
Tube Diameter/Surface	N/A	N/A	N/A	½/Enhanced
Evaporator Coil — High Capacity				
Size (Ft.)	37.9	37.9	43.1	43.1
Rows/Fin Series	4/148	4/148	4/148	5/148
Tube Diameter/Surface	½/Enhanced	½/Enhanced	½/Enhanced	½/Enhanced
Copper Condenser Fins (Optional)	3/144/ ³ / ₈			
Electric Heat				
KW Range ²	70-190	70-190	90-190	90-190
Capacity Steps:	3	3	3	3
Natural Gas Heat				
Standard Gas Heat				
Low Heat Input	500	500	500	500
High Heat Input	850	850	850	850
Standard Heating Capacity Steps:	2	2	2	2
Modulating Gas Heat				
High/Low Heat - Limited Modulation ⁴				
Heat Exchanger Type	See Table GD-5 Standard	See Table GD-5 Standard	See Table GD-5 Standard	See Table GD-5 Standard
High/Low Heat - Full Modulation ⁵	See Table GD-5 High Grade, Stainless Steel			
Hot Water Coil				
Size (Inches)	42x66x2 Row	42x66x2 Row	42x90x2 Row	42x90x2 Row
Type	5W Prima-Flo E w/turbolators	5W Prima-Flo E w/turbolators	5W Prima-Flo E w/turbolators	5W Prima-Flo E w/turbolators
High Heat (Fins/Ft)	110	110	110	110
Low Heat (Fins/Ft)	80	80	80	80
Steam Coil				
Size (Inches)	30x66x1 Row	30x66x1 Row	30x90x1 Row	30x90x1 Row
Type	12x66x1 Row Type NS	12x66x1 Row Type NS	12x90x1 Row Type NS	12x90x1 Row Type NS
High Heat (Fins/Ft)	96	96	72	72
Low Heat (Fins/Ft)	42	42	42	42



General Data

Table GD-2 — General Data — 59-90 Tons Continued

	59 Ton	70 Ton	73 Ton	80-90 Ton
Filters				
Panel Filters				
Number/Size (Inches)	20 — 20x25x2	20 — 20x25x2	35 — 16x20x2	35 — 16x20x2
Face Area (Ft)	69.4	69.4	77.8	77.8
Bag Filters				
Number/Size (Inches)	3 — 12x24x19 9 — 24x24x19	3 — 12x24x19 9 — 24x24x19	6 — 12x24x19 8 — 24x24x19	6 — 12x24x19 8 — 24x24x19
Cartridge Filters	3 — 12x24x12 9 — 24x24x12	3 — 12x24x12 9 — 24x24x12	6 — 12x24x12 8 — 24x24x12	6 — 12x24x12 8 — 24x24x12
Prefilters (For Bag & Cartridge)	3 — 12x24x2 9 — 24x24x2	3 — 12x24x2 9 — 24x24x2	6 — 12x24x2 8 — 24x24x2	6 — 12x24x2 8 — 24x24x2
Face Area (Ft)	42.0	42.0	44.0	44.0
Standard Unit Min. Outside Air Temperature For Mechanical Cooling				
Without Hot Gas Option	35 F	40 F	30 F	45 F
With Hot Gas Option	35 F	40 F	30 F	45 F
Low Ambient Option Min. Outside Air Temp				
Without Hot Gas Option	0 F	0 F	0 F	0 F
With Hot Gas Option	10 F	10 F	10 F	10 F

Notes:

1. For cfm values outside these ranges, refer to RT-EB-104.
2. Refer to Table PD-30 in standard catalog RT-PRC010-EN for availability of electric heat kw ranges by voltage.
3. 59-90 Tons models are dual circuit.
4. The firing rate of the unit can vary from 33% of the Heater Mbh up to the nameplate rating of the unit.
5. The firing rate of the unit can vary from pilot rate of 125,000 Btu/h up to the nameplate rating of the unit.
6. 40 Hp available as standard in 460 volt only.
7. Condenser fan motors are totally enclosed, fan cooled (TEFC).



General Data

Table GD-3 — General Data — 107-116 Tons

	107 Ton	116 Ton
Compressor Data³		
Number/Size (Nominal)	2/10, 4/15 Ton	6/15 Ton
Model	Scroll	Scroll
Unit Capacity Steps (%)	100/69/38/19	100/67/33/17
RPM	3450	3450
Evaporator Fans		
Number/Size/Type	2/28"/AF	2/28"/AF
Number of Motors	2	2
Hp Range	30-80	30-80
Cfm Range ¹	27,000-45,000	31,000-46,000 ⁴
ESP Range — (In. WG)	1.0-4.75	1.0-4.70
Exhaust Fans		
Number/Size/Type	50% 1/22"/FC	100% 2/22"/FC
Hp Range	15 15-40	15 15-40
Cfm Range	12,000-20,000	28,000-40,000
ESP Range — (In. WG)	.25-2.5	.25-2.5
Evaporative-Cooled Condenser Fans		
Number/Size/Type	1 / 47.5"/Prop	1/47.5"/Prop
Hp (Each) ⁷	7.5	7.5
Rpm / Cfm	1200/31,500	1200/33,250
Cycle/Phase	60/3	60/3
Evaporator Coil — Standard		
Dimensions	N/A	N/A
Size (Ft)	N/A	N/A
Rows/Fin Series	N/A	N/A
Tube Diameter/Surface	N/A	'N/A
Evaporator Coil — High Capacity		
Dimensions	122.0 x 70.0	122.0 x 71.25
Size (Ft)	59.3	59.3
Hi-Capacity Rows/Fin Series	5/148	5/148
Tube Diameter/Surface	1/2/Enhanced	1/2/Enhanced
Electric Heat		
KW	190	190
Capacity Steps:	3	3
Natural Gas Heat		
Standard Heating -- MBh Input	1000	1000
Capacity Steps:	2	2
Modulating Gas Heat		
High Heat - Limited Modulation ⁵	See Table GD-5	See Table GD-5
Heat Exchanger Type	Standard	Standard
High Heat - Full Modulation ⁶	See Table GD-5	See Table GD-5
Heat Exchanger Type	Stainless Steel	Stainless Steel
Hot Water Coil		
Size (Inches)	(2) 30x84x2 Row	(2) 30x84x2 Row
Type	5W Prima-Flo E w/turbolators	5W Prima-Flo E w/turbolators
High Heat (Fins/Ft)	110	110
Low Heat (Fins/Ft)	80	80
Steam Coil		
Size (Inches)	(2) 30x84x1 Row	(2) 30x84x1 Row
Type	Type NS	Type NS
High Heat (Fins/Ft)	96	96
Low Heat (Fins/Ft)	52	52



General Data

Table GD-3 — General Data — 107-116Tons Continued

	107 Ton	116 Ton
Filters		
Panel Filters		
Number/Size (Inches)	25-24x24x2	25-24x24x2
Face Area (Ft)	100.0	100.0
Bag Filters	3-12x24x19	3-12x24x19
Number/Size (Inches)	15-24x24x19	15-24x24x19
Cartridge Filters	3-12x24x12	3-12x24x12
	15-24x24x12	15-24x24x12
Prefilters (For Bag & Cartridge)	3-20x24x2	3-20x24x2
	15-24x24x2	15-24x24x2
Face Area (Ft)	66.0	66.0
Standard Unit Min. Outside Air Temperature For Mechanical Cooling		
Without Hot Gas Bypass	45 F	45 F
With Hot Gas Bypass	45 F	45 F

Notes:

1. For cfm values outside these ranges, refer to RT-EB-104.
- 2 Refer to Table PD-30 in standard catalog RT-PRC010-EN for availability of electric heat kw ranges by voltage.
3. 107-116 Ton models are dual circuit.
4. Max cfm for 116 Ton std is 44,000.
- 5 The firing rate of the unit can vary from 33% of the Heater Mbh up to the nameplate rating of the unit.
6. The firing rate of the unit can vary from pilot rate of 125,000 Btuh up to the nameplate rating of the unit.
7. Condenser fan motors are totally enclosed, fan cooled (TEFC).

Table GD-4 — Economizer Outdoor Air Damper Leakage (Of Rated Airflow)

	ΔP Across Dampers (In. WC)
	0.5 (In.) 1.0 (In.)
Standard "Low Leak"	1.5 % 2.5 %
Optional "Ultra Low Leak"	0.5 % 1.0 %

Note:

1. Above data based on tests completed in accordance with AMCA Standard 575 at AMCA Laboratories.

Table GD-5— Gas Heat Inputs/Input Ranges

Standard Gas Heat (MBh)	Two-Stage Gas Heat		Modulating Gas Heat ¹	
	Low Fire Heat Input (MBh)	High Fire Heat Input (MBh)	Full Modulating Heat Input Range (MBh)	Limited Modulating Heat Input Range (MBh)
235	120	235	NA	NA
350	175	350	NA	NA
500	250	500	125 - 500	167 - 500
850	425	850	125 - 850	284 - 850
1000	500	1000	125 - 1000	334 - 1000

Note:

1. Modulating Gas Heat (Not Available on 24-36 Ton Models with Low Heat)



Performance Data

(24 to 70 Tons)

Table PD-1— 24 Ton Gross Cooling Capacities (Mbh) — HIGH CAPACITY Evaporator Coil With Scroll Compressor

Saturated Condensing Temperature 105°										
		Entering Wet Bulb								
		ENT	DB	61	67	73				
		(F)	CAP	SHC	CAP	SHC	CAP	SHC	CAP	SHC
4000	75	213	154	241	127	269	98			
	80	211	175	241	150	269	120			
	85	212	197	242	172	269	143			
	90	221	221	242	195	269	165			
6000	75	239	190	265	148	295	105			
	80	242	223	266	181	295	138			
	85	249	249	267	215	296	172			
	90	262	262	270	248	296	206			
7000	75	247	205	272	157	304	108			
	80	253	239	273	196	304	147			
	85	263	263	276	235	305	186			
	90	277	277	280	270	305	224			
8000	75	254	218	278	166	311	111			
	80	262	253	279	211	311	155			
	85	274	274	283	253	312	199			
	90	289	289	289	289	312	241			
9000	75	260	230	283	176	316	113			
	80	270	264	285	223	316	163			
	85	284	284	289	271	317	211			
	90	300	300	297	306	318	258			

Table PD-2— 25 Ton Gross Cooling Capacities (Mbh) — HIGH CAPACITY Evaporator Coil With Scroll Compressor

Saturated Condensing Temperature 105°										
		Entering Wet Bulb								
		ENT	DB	61	67	73				
		(F)	CAP	SHC	CAP	SHC	CAP	SHC	CAP	SHC
5000	75	269	194	304	160	338	124			
	80	267	220	304	188	338	152			
	85	268	249	305	216	339	180			
	90	283	283	306	245	339	208			
7000	75	295	229	327	180	365	130			
	80	299	270	329	219	365	169			
	85	308	308	331	259	366	208			
	90	325	325	335	300	367	248			
8500	75	309	255	339	194	378	134			
	80	316	302	341	242	378	182			
	85	330	330	344	291	379	229			
	90	348	348	352	339	381	277			
10000	75	319	278	348	208	388	138			
	80	330	323	350	265	388	194			
	85	346	346	356	322	389	250			
	90	366	366	366	367	391	306			
11000	75	325	290	352	217	393	141			
	80	337	334	355	280	393	202			
	85	356	356	362	343	394	263			
	90	376	376	374	382	398	326			

Table PD-3— 36 Ton Gross Cooling Capacities (Mbh) — HIGH CAPACITY Evaporator Coil With Scroll Compressor

Saturated Condensing Temperature 105°										
		Entering Wet Bulb								
		ENT	DB	61	67	73				
		(F)	CAP	SHC	CAP	SHC	CAP	SHC	CAP	SHC
6000	75	322	232	363	192	404	148			
	80	320	264	364	225	405	181			
	85	321	298	365	259	405	215			
	90	338	338	366	293	406	249			
9000	75	359	285	396	221	442	157			
	80	365	338	398	272	442	207			
	85	378	378	401	323	443	258			
	90	399	399	407	376	444	308			
10500	75	371	311	407	235	454	161			
	80	381	366	409	294	454	220			
	85	398	398	414	355	455	279			
	90	420	420	423	412	457	338			
12000	75	381	333	415	249	463	165			
	80	394	386	418	317	464	232			
	85	414	414	425	386	465	299			
	90	438	438	437	439	468	367			
13500	75	390	350	422	263	471	169			
	80	406	402	426	339	472	244			
	85	428	428	435	417	473	319			
	90	453	453	450	461	477	396			

Table PD-4— 48 Ton Gross Cooling Capacities (Mbh) — HIGH CAPACITY Evaporator Coil With Scroll Compressor

Saturated Condensing Temperature 105°										
		Entering Wet Bulb								
		ENT	DB	61	67	73				
		(F)	CAP	SHC	CAP	SHC	CAP	SHC	CAP	SHC
12000	75	647	465	733	386	813	297			
	80	641	528	733	453	813	364			
	85	650	600	734	520	814	431			
	90	685	685	737	589	814	499			
16000	75	698	536	778	424	863	308			
	80	704	628	779	514	864	398			
	85	728	728	784	605	865	487			
	90	767	767	795	699	867	577			
19000	75	726	587	801	452	889	316			
	80	739	699	804	559	890	422			
	85	771	771	812	668	891	528			
	90	813	813	830	779	895	635			
22000	75	747	637	819	479	910	323			
	80	768	767	824	603	910	446			
	85	807	807	836	730	912	569			
	90	851	851	860	833	917	693			
24000	75	760	670	830	497	921	328			
	80	781	781	835	633	922	462			
	85	826	826	850	772	923	596			
	90	872	872	877	863	930	732			



Performance Data

(73 to 125 Tons)

Table PD-7— 73 Ton Gross Cooling Capacities (Mbh) — HIGH CAPACITY Evaporator Coil With Scroll Compressor

Saturated Condensing Temperature 105°									
CFM	ENT		Entering Wet Bulb						
	DB	61	67	73	(F)	CAP	SHC	CAP	SHC
14000	75	688	507	769	406	856	303		
	80	691	587	771	488	857	386		
	85	703	663	775	568	859	466		
	90	738	713	781	646	860	545		
18000	75	734	562	810	433	903	307		
	80	747	653	814	536	904	412		
	85	772	733	821	636	906	517		
	90	814	801	833	729	909	620		
21000	75	759	592	832	451	929	307		
	80	780	690	837	569	931	429		
	85	814	777	846	682	933	549		
	90	858	854	862	788	937	669		
24000	75	780	620	849	465	948	304		
	80	807	724	856	598	950	443		
	85	848	820	868	723	953	578		
	90	895	904	889	838	958	715		
27000	75	798	645	863	477	964	299		
	80	831	756	871	625	966	455		
	85	876	863	887	761	969	605		
	90	926	948	914	886	976	759		

Table PD-8— 80 Ton Gross Cooling Capacities (Mbh) — STANDARD CAPACITY Evaporator Coil With Scroll Compressor

Saturated Condensing Temperature 105°									
CFM	ENT		Entering Wet Bulb						
	DB	61	67	73	(F)	CAP	SHC	CAP	SHC
16000	75	781	577	880	469	977	353		
	80	780	666	882	559	978	442		
	85	799	764	884	649	979	532		
	90	842	842	891	742	980	621		
20000	75	827	648	919	507	1021	364		
	80	837	764	922	620	1022	476		
	85	869	869	929	734	1024	588		
	90	916	916	944	852	1027	700		
22000	75	845	682	935	526	1038	369		
	80	861	812	938	650	1039	492		
	85	897	897	947	776	1041	615		
	90	946	946	966	902	1045	739		
24000	75	862	716	948	544	1053	374		
	80	882	858	952	680	1054	508		
	85	922	922	964	818	1056	642		
	90	973	973	987	941	1061	777		
27000	75	882	768	965	572	1072	381		
	80	908	903	971	724	1073	532		
	85	955	955	986	880	1075	683		
	90	1008	1008	1015	991	1081	835		

Table PD-9— 90 Ton Gross Cooling Capacities (Mbh) — HIGH CAPACITY Evaporator Coil With Scroll Compressor

Saturated Condensing Temperature 105°									
CFM	ENT		Entering Wet Bulb						
	DB	61	67	73	(F)	CAP	SHC	CAP	SHC
16000	75	854	615	960	507	1068	390		
	80	853	704	962	597	1069	479		
	85	863	798	966	688	1071	569		
	90	910	910	973	780	1073	660		
20000	75	907	687	1008	545	1122	402		
	80	917	803	1011	658	1124	514		
	85	944	928	1019	773	1126	626		
	90	996	996	1031	890	1129	739		
22000	75	928	721	1026	564	1142	407		
	80	944	851	1030	689	1144	530		
	85	978	977	1040	815	1146	654		
	90	1031	1031	1056	944	1150	778		
24000	75	947	756	1041	583	1160	412		
	80	967	899	1047	719	1162	547		
	85	1007	1007	1058	857	1164	681		
	90	1062	1062	1079	999	1169	817		
27000	75	971	806	1061	610	1182	420		
	80	999	963	1068	763	1184	571		
	85	1045	1045	1083	920	1187	722		
	90	1104	1104	1110	1081	1193	875		

Table PD-10— 107 Ton Gross Cooling Capacities (Mbh) — HIGH CAPACITY Evaporator Coil With Scroll Compressor

Saturated Condensing Temperature 105°									
CFM	ENT		Entering Wet Bulb						
	DB	61	67	73	(F)	CAP	SHC	CAP	SHC
27000	75	1059	847	1168	654	1303	463		
	80	1079	1007	1173	807	1305	614		
	85	1122	1122	1184	961	1307	765		
	90	1183	1183	1204	1120	1310	917		
32000	75	1098	931	1201	701	1340	476		
	80	1130	1097	1208	881	1342	655		
	85	1184	1184	1224	1066	1344	834		
	90	1250	1250	1256	1239	1350	1014		
37000	75	1129	1003	1227	747	1369	489		
	80	1171	1158	1236	956	1371	695		
	85	1234	1234	1259	1170	1374	902		
	90	1304	1304	1299	1317	1383	1111		
42000	75	1155	1057	1248	793	1392	501		
	80	1206	1206	1261	1031	1394	735		
	85	1277	1277	1288	1273	1397	970		
	90	1350	1349	1338	1379	1411	1204		
45000	75	1169	1087	1259	820	1404	508		
	80	1223	1223	1273	1076	1406	759		
	85	1298	1298	1303	1326	1409	1010		
	90	1373	1373	1359	1407	1425	1253		

Table PD-11— 116 Ton Gross Cooling Capacities (Mbh) — HIGH CAPACITY Evaporator Coil With Scroll Compressor

Saturated Condensing Temperature 105°									
CFM	ENT		Entering Wet Bulb						
	DB	61	67	73	(F)	CAP	SHC	CAP	SHC
31000	75	1177	955	1296	733	1444	513		
	80	1202	1138	1302	907	1446	686		
	85	1252	1252	1316	1085	1448	860		
	90	1321	1321	1343	1271	1452	1034		
35000	75	1207	1022	1322	770	1473	523		
	80	1240	1212	1329	967	1474	719		
	85	1300	1300	1348	1169	1477	914		
	90	1373	1373	1384	1347	1485	1112		
39000	75	1232	1085	1343	806	1496	533		
	80	1275	1264	1353	1027	1498	751		
	85	1342	1342	1376	1253	1501	969		
	90	1417	1417	1419	1411	1512	1189		
43000	75	1255	1131	1361	843	1516	543		
	80	1300	1300	1374	1087	1518	783		
	85	1378	1378	1401	1338	1521	1023		
	90	1456	1456	1452	1463	1535	1268		
46000	75	1270	1163	1373	870	1529	550		
	80	132							



Performance Data

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Performance Data

Table PD-14-1 — IntelliPak with Evaporative-Cooled Condenser — 78° design ambient wet bulb

Models	CFM	CAP	SHC	SHR	*KW
73 ton hi cap	24000	856	598	0.699	46.7
90 ton hi cap	27000	1068	763	0.714	57.7
107 ton	37000	1236	956	0.773	66.1
116 ton	39000	1353	1027	0.759	74.4

Table 14-2— IntelliPak with Air Cooled Condenser — 95° design ambient dry bulb

Models	CFM	CAP	SHC	SHR	*KW
75 ton hi cap	20000	922	635	0.689	78.6
90 ton	32000	1061	775	0.730	87
105 hi cap	35000	1238	936	0.756	95.4
115 ton	39000	1350	1028	0.761	109.2

Table PD-15 — Air-cooled (95° DB) vs. Evaporative-cooled (78°WB) cabinet size reduction

Models	CFM	CAP	SHC	SHR		Models	CFM	CAP	SHC	SHR
60 Ton Hi Cap	24000	787	619	0.79		73 Ton Hi Cap	24000	856	598	0.70
75 Ton Hi Cap	27000	971	742	0.76		90 Ton Hi Cap	27000	1068	763	0.71
90 Ton Hi Cap	37000	1139	915	0.80		107 Ton Hi Cap	37000	1236	956	0.77
105 Ton Hi Cap	43000	1274	1041	0.82		116 Ton Hi Cap	43000	1374	1087	0.79
115 Ton	44000	1373	1092	0.80						

Table PD-16— Evaporative-cooled vs. Air-cooled Comparison Overview

	CFM	CAP	SHR	EER	KW		CFM	CAP	SHR	EER	KW
90 Ton Hi Cap	37000	1139	0.80	15.3	91.2	107 Ton Hi Cap	37000	1236	0.77	21	66.3
										Power Reduction	0.27
Cabinet Size Reduction											
Air-cooled Condenser											
	CFM	CAP	SHR	EER	KW		CFM	CAP	SHR	EER	KW
105 Ton Hi Cap	35000	1238	0.76	15.3	103	107 Ton Hi Cap	35000	1222	0.75	21	66.3
										Power Reduction	0.36
Humidity Control Solution											
Air-cooled Condenser											
	CFM	CAP	SHR	EER	KW		CFM	CAP	SHR	EER	KW
90 Ton Hi Cap	27000	1084	0.72	15.3	93	107 Ton Hi Cap	27000	1173	0.69	21	63.1
										Power Reduction	0.32
Evap-cooled Condenser											



Controls

This catalog contains information relating to IntelliPak evaporative-cooled condensers. For expanded details on IntelliPak rooftops, please see the standard Trane catalog RT-PRC010-EN.

Evaporative-cooled Condensers

Sump Water Control

The control automatically drains and fills the sump based on a field adjustable timer. This operation flushes scale and deposits down the drain and hinders algae growth. The frequency between flush cycles depends on water quality, daily operating hours and the amount of heat to be rejected. Typically the valve should remain open for one minute for every condenser connected to the common drain line; therefore, a unit having two condensers would have the drain valve remain open for 2 minutes. The timer is adjustable between one and twelve flushes per day, with a factory setting of two times per day.

Draining of the sump water is controlled through a motorized, full port ball valve, that is factory piped to the sump drain.

The valve actuator is:

- Factory wired to the unit control panel
- Housed within a NEMA 4 enclosure
- Features a spring return mechanism that automatically opens in the event of a power failure or the unit is disabled.
- Factory set to allow for a minimum amount of water to be bled from the sump during unit operation. Provides additional flushing of debris and sediment from the sump.

During the flushing cycle, the motor actuated full port ball valve is opened, allowing the sump to drain for the preset duration. The make up water valve is opened allowing fresh water into the sump. With the unit still operating, a sump float switch protects the pump from running dry. If the pump stops due to low water level in the sump, the system may experience high head pressure. To prevent this from occurring, the drain time should be monitored during startup to ensure that the water level switch does not shut the pump off.

Standard Low Ambient Control

Ambient Changeover Thermostat —

An adjustable thermostat will drain the sump and close the makeup water solenoid valve when the outside temperature drops below the factory set point (typically 38° F). The set point can be field adjusted to meet local conditions, preventing freeze-up when the unit is not operating. Should additional cooling be required during low ambient conditions, an optional sump heater should be specified.

Sump Freeze Protection — An optional 3000-watt sump heater (per sump) can be specified for freeze protection. This option should be specified when the system operates in low ambient conditions (below 32° F). By keeping the sump water warm during shutdown, the system can restart without the potential low head pressure that can occur when cold water sprays over the coil.

Condenser Fan Control

In order to provide the optimum in energy efficiency and minimize noise, the condenser fan speed is modulated by a variable frequency drive, based on sump water temperature. The factory setpoint for the sump water temperature is 78 degrees F, and is adjustable from 65 to 85 degrees F on the variable frequency drive. As the sump water temperature rises above this setpoint, the fan speed increases. As the sump water temperature reaches setpoint the fan speed decreases to the minimum speed set on the variable frequency drive.



Electric Power

This catalog contains information relating to IntelliPak evaporative-cooled condensers. For expanded details on IntelliPak rooftops, please see the standard Trane catalog RT-PRC010-EN.

Table ED - 1— Electrical Service Sizing Data - Evapaporator-Cooled Condenser Motors and Heaters

Nominal Tons	Number of Evap Cond Modules	Evap Cond Models	Cond Fan HP	Cond Fan Motor - Per Evap Cond Module			
				Cond Fan FLA 200V	Cond Fan FLA 230V	Cond Fan FLA 460V	Cond Fan FLA 575V
24 ton HI	1	25	3	11.3	9.8	4.9	3.9
30 ton HI	1	35	5	17.3	15	7.5	6
36 ton HI	1	40	5	17.3	15	7.5	6
48 ton HI	1	55	5	17.3	15	7.5	6
59 ton HI	1	65	5	17.3	15	7.5	6
70 ton HI	1	75	5	17.3	15	7.5	6
73 ton HI	1	80	7.5	26.5	23	11.5	9.2
80 ton Std	1	90	7.5	26.5	23	11.5	9.2
90 ton HI	1	100	7.5	26.5	23	11.5	9.2
107 ton HI	1	90	7.5	26.5	23	11.5	9.2
116 ton HI	1	105	7.5	26.5	23	11.5	9.2
Nominal Tons	Number of Evap Cond Modules	Evap Cond Models	Sump Pump HP	Pump FLA 200V	Pump FLA 230V	Pump FLA 460V	Pump FLA 575V
24 ton HI	1	25	1	4.7	4.4	2.2	1.8
30 ton HI	1	35	1	4.7	4.4	2.2	1.8
36 ton HI	1	40	1	4.7	4.4	2.2	1.8
48 ton HI	1	55	1	4.7	4.4	2.2	1.8
59 ton HI	1	65	1	4.7	4.4	2.2	1.8
70 ton HI	1	75	1	4.7	4.4	2.2	1.8
73 ton HI	1	80	1	4.7	4.4	2.2	1.8
80 ton Std	1	90	1	4.7	4.4	2.2	1.8
90 ton HI	1	100	1	4.7	4.4	2.2	1.8
107 ton HI	1	90	1	4.7	4.4	2.2	1.8
116 ton HI	1	105	1	4.7	4.4	2.2	1.8
Nominal Tons	Number of Evap Cond Modules	Evap Cond Models	Sump Heater KW	Sump Htr. FLA 200V	Sump Htr. FLA 230V	Sump Htr. FLA 460V	Sump Htr. FLA 575V
24 ton HI	1	25	3	8.7	7.5	3.8	3.0
30 ton HI	1	35	3	8.7	7.5	3.8	3.0
36ton HI	1	40	3	8.7	7.5	3.8	3.0
48 ton HI	1	55	3	8.7	7.5	3.8	3.0
59 ton HI	1	65	3	8.7	7.5	3.8	3.0
70 ton HI	1	75	3	8.7	7.5	3.8	3.0
73 ton HI	1	80	3	8.7	7.5	3.8	3.0
80 ton Std	1	90	3	8.7	7.5	3.8	3.0
90 ton HI	1	100	3	8.7	7.5	3.8	3.0
107 ton HI	1	90	3	8.7	7.5	3.8	3.0
116 ton HI	1	105	3	8.7	7.5	3.8	3.0



Dimensions and Weights

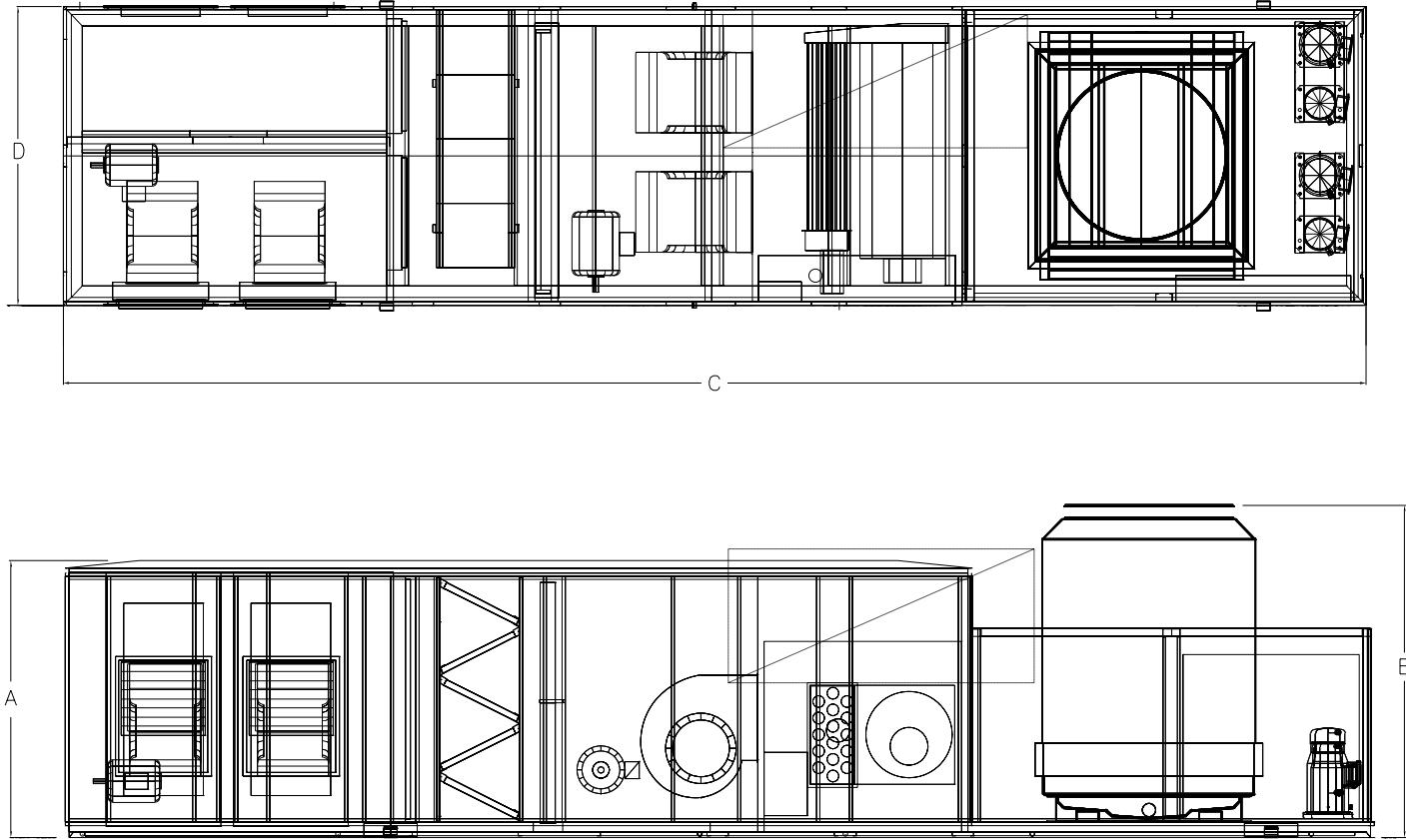


Table W-1 Dimensions (ft./in.) and Shipping/Operating Weights¹ (Lbs.)

Nominal Tons	Dimensions				Shipping Wts	Operating Wts
	A	B	C	D	Min/Max²	Min/Max²
SAHF/S*H*						
24 Hi Cap	5-8 ¹⁵ / ₁₆	8-5	24-5 ¾/26-5 ¾ ₈	7-6½	5884/7154	6382/7652
30 Hi Cap	5-8 ¹⁵ / ₁₆	8-5	24-5 ¾/26-5 ¾ ₈	7-6½	6087/7367	6585/7865
36 Hi Cap	6-2 ³ / ₈	8-5	24-5 ¾/26-5 ¾ ₈	7-6½	6739/8139	7237/8637
48 Hi Cap	6-7 ³ / ₈	8-5	27/30-2½	7-6½	8162/10182	8660/10680
59 Hi Cap	5-8 ⁷ / ₈	8-5	27/30-2½	7-6½	9142/11272	9640/11770
70 Hi Cap	5-8 ⁷ / ₈	8-5	27/30-2½	7-6½	9364/11504	9862/12002
73 Hi Cap	6-7 ³ / ₈	8-5	27/30-2½	9-8	10731/12901	11395/13565
80 Std	6-7 ³ / ₈	8-5	27/30-2½	9-8	11320/13510	11984/14174
90 Hi Cap	6-7 ³ / ₈	8-5	27/30-2½	9-8	11422/13612	12086/14276
107 Hi Cap	6-9 ³ / ₈	8-5	NA/35-3¾	11-8 1/ ₁₆	14532/18467	15196/19131
116 Hi Cap	6-9 ³ / ₈	8-5	NA/35-3¾	11-8 1/ ₁₆	15180/18787	15816/19451

Notes:

- For other unit or component dimensions, please see standard Trane catalog RT-PRC010-EN.
- The weights shown are approximate for high heat gas units. Weights will vary depending on the heat type and model configuration. For component weight information, please see standard Trane catalog RT-PRC010-EN.



Mechanical Specifications

This catalog contains information relating to IntelliPak evaporative-cooled condensers. For expanded details on IntelliPak rooftops, please see the standard Trane catalog RT-PRC010-EN.

General

Units shall be specifically designed for outdoor rooftop installation on a roof curb and be completely factory assembled and tested, piped, internally wired, fully charged with R-22, compressor oil and shipped in one piece. Units shall be equipped with evaporative-cooled condenser(s) for cooling only, or cooling with natural gas, electric, hot water or steam heating. Filters, outside air system, exhaust air system, optional non-fused disconnect switches and all operating and safety controls shall be furnished factory installed. All units shall be factory run tested. All units shall have decals and tags to aid in service and indicate caution areas. Electrical diagrams shall be printed on long life water-resistant material and shall ship attached to control panel doors.

Casing

Exterior panels shall be zinc coated galvanized steel, phosphatized and painted with a slate grey air-dry finish durable enough to withstand a minimum of 500 hours consecutive salt spray application in accordance with standard ASTM B117. Screws shall be coated with zinc-plus-zinc chromate. Heavy gauge steel hinged access panels with tiebacks to secure door in open position shall provide access to filters and heating sections. Refrigeration components, supply air fan and compressor shall be accessible through removable panels as standard. Unit control panel, filter section, and gas heating section shall be accessible through hinged access panels

as standard. Optional Double Wall Construction hinged access doors shall provide access to filters, return/exhaust air, heating and supply fan section. All access doors and panels shall have neoprene gaskets. Interior surfaces or exterior casing members shall have ½ inchTuf-Skin® fiberglass insulation. Unit base shall be watertight with heavy gauge formed load bearing members, formed recess and curb overhang. Unit lifting lugs shall accept chains or cables for rigging. Lifting lugs shall also serve as unit tiedown points.

Evaporative-Cooled Condenser

Housing

The housing shall be constructed of corrosion and UV resistant, low-density linear polyethylene.

Pump

Low maintenance sump pump is fully accessible through the evaporative-condenser access panel. For an adequate water flow, water is pumped at approximately 100 GPM.

Fan

Compact fan controlled by a variable frequency drive with a totally enclosed fan cooled motor that operates at nominal 1200 RPM.

Coils

Durable copper 5/8", .035 wall tubing provides strength and resilience for expansion and contraction for scale shedding.

Sump Float Level Switch

Protects the sump pump by preventing the pump from running dry.

Optional Sump Heater

3000-watt sump heater provides freeze protection in low ambient conditions.



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