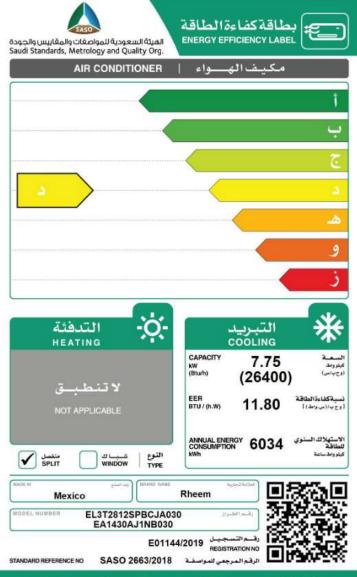




#### **Better Performance**

Painted Cabinets
1008 Hrs Salt Spray (ASTM-B117)
Scroll Compressor
System Protections
Metal coil Guard
Metal Fan and Fan Guard
Metal Blower and housing
Energy Efficient ECM
Composite Base pan
Optimized fan orifice
Modern cabinet aesthetics
Visual brand language

MODEL	T1 EER	T1 CAPACITY
18	12.15	17000
22 & 24	11.85	22000
28 & 30	11.8	26400
32 & 36	11.85	32000
42	11.80	43600
48	12.85	48000
55	12.10	52000
65	12.10	62000



زالة أو تغطية أو العبث بهذه البطاقة قبل البيع يجعلك عرضة للمسؤولية النظامية Removing, covering or altering this label before sale can subject you to legal liability





#### **Better Performance**

#### **Painted Cabinets**

1008 Hrs Salt Spray (ASTM-B117)
Scroll Compressor
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Visual brand language



Polyester based Powder painted, sheet metal for high corrosion resistance

- Long life
- Elegant look.





Better Performance
Painted Cabinets
1008 Hrs Salt Spray (ASTM-B117)
Scroll Compressor
System Protections

System Protections
Metal coil Guard
Metal Fan and Fan Guard
Metal Blower and housing
Energy Efficient ECM
Composite Base pan
Optimized fan orifice
Modern cabinet aesthetics
Visual brand language



1008 hrs salt spray test as per ASTM-B117 std.

- Long life
- No corrosion of panels
- Elegant look.





# 360° Performance™

Better Performance Painted Cabinets 1008 Hrs Salt Spray (ASTM-B117)

#### **Scroll Compressor**

System Protections
Metal coil Guard
Metal Fan and Fan Guard
Metal Blower and housing
Energy Efficient ECM
Composite Base pan
Optimized fan orifice
Modern cabinet aesthetics
Visual brand language



- Emerson (Copeland) make Scroll Compressor Specially designed for High Ambient and High Efficiency application.
- Internally spring mounted and externally mounted on rubber grommets - reduced vibration and noise.
- Internal Pressure Relief protect against excessive pressure differential.
  - High Efficiency
  - Proven for reliability
  - Suitable for High Ambient
  - Reason to trust (Emerson)





# 360° Performance™

Better Performance Painted Cabinets 1008 Hrs Salt Spray (ASTM-B117) Scroll Compressor

#### **System Protections**

Metal coil Guard
Metal Fan and Fan Guard
Metal Blower and housing
Energy Efficient ECM
Composite Base pan
Optimized fan orifice
Modern cabinet aesthetics
Visual brand language



- HP and LP safety controls are a standard feature on all the models.
- HP/LP Interlocked with controller.
- Anti Short Cycle control standard

- Increased compressor and system reliability.
- Long life





Formed and slotted corner posts



Formed curved louver panel

Better Performance
Painted Cabinets
1008 Hrs Salt Spray (ASTM-B117)
Scroll Compressor
System Protections
Metal coil Guard

Metal Fan and Fan Guard
Metal Blower and housing
Energy Efficient ECM
Composite Base pan
Optimized fan orifice
Modern cabinet aesthetics
Visual brand language

- Metallic louver guard Helps reducing chocking of coil
- Avoids mechanical damage to coils
- Pressed parts like Base, Top, Side grilles makes cabinet sturdy

- Long life
- Less chocking of coils
- Elegant look
- Sturdiness





Better Performance
Painted Cabinets
1008 Hrs Salt Spray (ASTM-B117)
Scroll Compressor
System Protections
Metal coil Guard
Metal Fan and Fan Guard

Metal Blower and housing Energy Efficient ECM Composite Base pan Optimized fan orifice Modern cabinet aesthetics Visual brand language



Metallic Condenser fan blades ensure safety & high durability. Metallic wire guard confirms to IEC safety standard & high durability

#### Benefit:

Longer life





Better Performance
Painted Cabinets
1008 Hrs Salt Spray (ASTM-B117)
Scroll Compressor
System Protections
Metal coil Guard
Metal Fan and Fan Guard
Metal Blower and housing
Energy Efficient ECM
Composite Base pan
Optimized fan orifice
Modern cabinet aesthetics

Visual brand language



# Metallic Indoor Blower

Metallic Indoor Blower ensure safety & high durability.

# Metallic Blower Housing

Metallic Indoor Blower housing ensure no air leakage thru joints

#### Benefit:

Longer life





Better Performance
Painted Cabinets
1008 Hrs Salt Spray (ASTM-B117)
Scroll Compressor
System Protections
Metal coil Guard
Metal Fan and Fan Guard
Metal Blower and housing
Energy Efficient ECM

Composite Base pan

Optimized fan orifice

Visual brand language

Modern cabinet aesthetics



- Energy Efficient BLDC motors
- Constant Torque Good for high external static pressure
- Multi speed
- Internally protected
- Mounted on resilient neoprene rubber to reduce noise and vibration.
- Permanently lubricated
- Reputed Brand

- Low vibration
- Low noise
- Increased reliability
- Reduced Energy bill





Better Performance
Painted Cabinets
1008 Hrs Salt Spray (ASTM-B117)
Scroll Compressor
System Protections
Metal coil Guard
Metal Fan and Fan Guard
Metal Blower and housing
Energy Efficient ECM
Composite Base pan

#### Benefit:

Optimized fan orifice

Visual brand language

Modern cabinet aesthetics

- Reduces Fasteners
- Eliminates corrosion
- Dampens vibration
- Lighter weight
- Rigidity



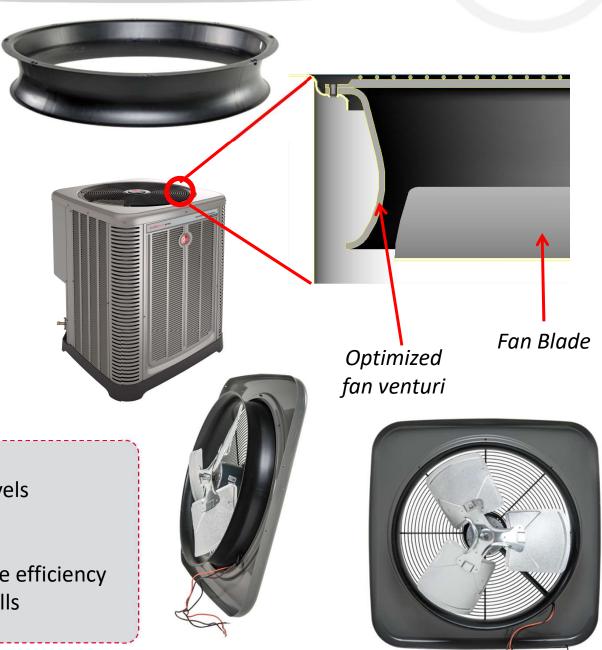




Better Performance
Painted Cabinets
1008 Hrs Salt Spray (ASTM-B117)
Scroll Compressor
System Protections
Metal coil Guard
Metal Fan and Fan Guard
Metal Blower and housing
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Composite Base pan
Optimized fan orifice
Modern cabinet aesthetics

Visual brand language

- Reduced sound levels
- Increased air flow
- Improved Thermal performance hence efficiency
- Reduced Energy bills



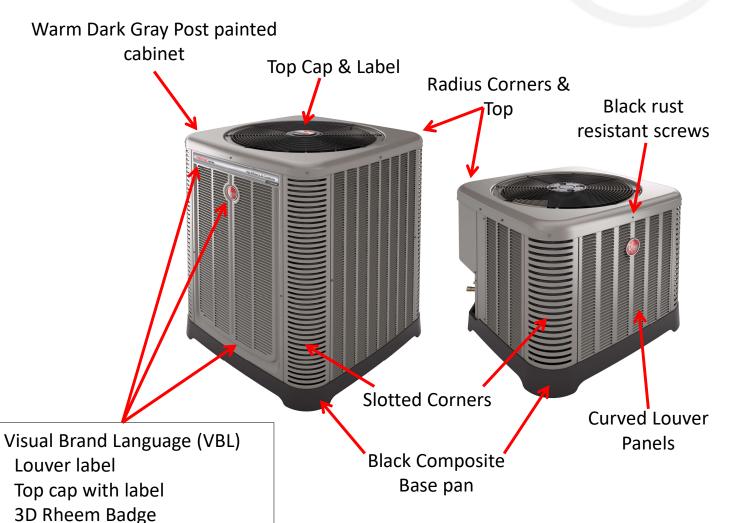




Better Performance
Painted Cabinets
1008 Hrs Salt Spray (ASTM-B117)
Scroll Compressor
System Protections
Metal coil Guard
Metal Fan and Fan Guard
Metal Blower and housing
Energy Efficient ECM
Composite Base pan
Optimized fan orifice

Modern cabinet aesthetics

Visual brand language



- Elegant look
- Premium image













# **Features**

- EERs up to 12.85
- Higher actual capacities

# **Benefits**

Reduce power consumption at high ambient temp

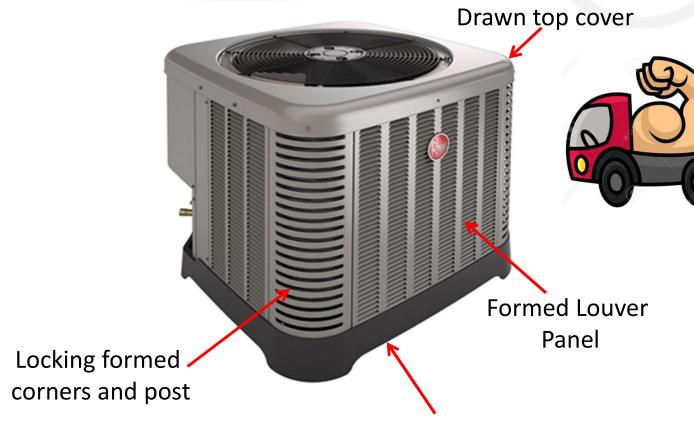




# 360

#### Sturdy cabinet

15" wide control box
External gauge ports
Service trays
Integrated lift receptacles
(Optional)
Easy handling
No sharp edges
10.5" High-Slim Air Handlers
Convertible return air
arrangement
Provision for ½" & 1" filter
Easy Hi/Lo voltage hookup
Flexibility in drain connection



Rigid composite base pan

- Increase panel strength
- Low vibration
- Low noise
- Increased reliability





# Sturdy cabinet

#### 15" wide control box

External gauge ports
Service trays
Integrated lift receptacles
(Optional)
Easy handling
No sharp edges
10.5" High-Slim Air Handlers
Convertible return air
arrangement
Provision for ½" & 1" filter
Easy Hi/Lo voltage hookup
Flexibility in drain connection





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360

Sturdy cabinet
15" wide control box
External gauge ports
Service trays
Integrated lift receptacles
(Optional)
Easy handling
No sharp edges
10.5" High-Slim Air Handlers
Convertible return air
arrangement
Provision for ½" & 1" filter
Easy Hi/Lo voltage hookup
Flexibility in drain connection





# REFRIGERANT CONNECTIONS

- Connections soldered type on exterior of the unit
- located close to the ground for neat appearing installation.

# SERVICE VALVES

- Standard on all models.
- Outside the unit with service port for connecting gauges for ease of installation, additional refrigerant charging and monitoring of system.

#### Benefit:

- Easy to install
- · Saves time



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# 360° Installability™

Sturdy cabinet 15" wide control box External gauge ports

#### Service trays

Integrated lift receptacles
(Optional)
Easy handling
No sharp edges
10.5" High-Slim Air Handlers
Convertible return air
arrangement
Provision for ½" & 1" filter
Easy Hi/Lo voltage hookup
Flexibility in drain connection

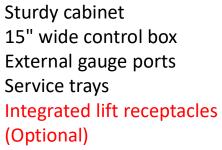




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Easy handling
No sharp edges
10.5" High-Slim Air Handlers
Convertible return air
arrangement
Provision for ½" & 1" filter
Easy Hi/Lo voltage hookup
Flexibility in drain connection



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Sturdy cabinet
15" wide control box
External gauge ports
Service trays
Integrated lift receptacles
(Optional)

#### Easy handling

No sharp edges
10.5" High-Slim Air Handlers
Convertible return air
arrangement
Provision for ½" & 1" filter
Easy Hi/Lo voltage hookup
Flexibility in drain connection









Sturdy cabinet
15" wide control box
External gauge ports
Service trays

Integrated lift receptacles

(Optional) Easy handling

#### No sharp edges

10.5" High-Slim Air Handlers
Convertible return air
arrangement
Provision for ½" & 1" filter
Easy Hi/Lo voltage hookup
Flexibility in drain connection

# Post paint



Composite base pan (Elevated for ease of handling)

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Sturdy cabinet
15" wide control box
External gauge ports
Service trays
Integrated lift receptacles
(Optional)
Easy handling
No sharp edges
16.57" High-Slim Air Handlers
Convertible return air
arrangement
Provision for ½" & 1" filter
Easy Hi/Lo voltage hookup

Flexibility in drain connection



- 26 cm (10.5") height **up to model 32**
- 40.8 cm (16.07") height from model 42 to 55
- 42 cm (16.57") height for model 65
- Can go easily in tight space

- Easy to install
- Easy installation in tight space
- Leaves more space for service





Sturdy cabinet
15" wide control box
External gauge ports
Service trays
Integrated lift receptacles
(Optional)
Easy handling
No sharp edges
10.5" High-Slim Air Handlers
Convertible return air
arrangement (Up to model 32)
Provision for ½" & 1" filter

Easy Hi/Lo voltage hookup

Flexibility in drain connection

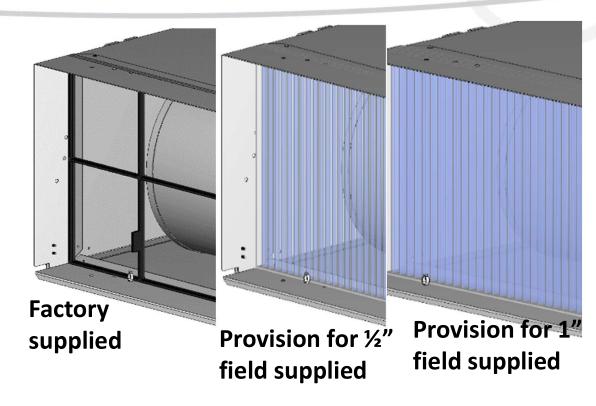
Up to Model 32

- Installation flexibility
- Save space





Sturdy cabinet
15" wide control box
External gauge ports
Service trays
Integrated lift receptacles
(Optional)
Easy handling
No sharp edges
10.5" High-Slim Air Handlers
Convertible return air
arrangement
Provision for ½" & 1" filter
Easy Hi/Lo voltage hookup
Flexibility in drain connection



# Filter arrangement flexibility

- Bottom access to filter
- Easy to remove in case of return air ducting
- Provision to accommodate ½" & 1" field supplied filter

- Ease of service
- Installation flexibility

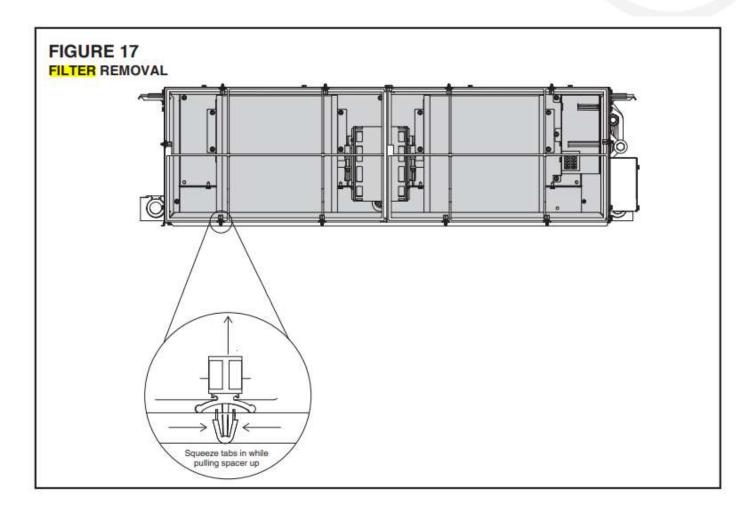




Sturdy cabinet
15" wide control box
External gauge ports
Service trays
Integrated lift receptacles
(Optional)
Easy handling
No sharp edges
10.5" High-Slim Air Handlers
Convertible return air
arrangement
Provision for ½" & 1" filter

Easy Hi/Lo voltage hookup

Flexibility in drain connection



FILTER REMOVAL as shown in Figure 17, remove the white plastic filter retention clips so that the filters can be removed without the need of any tools (see Figure 17 on how to remove the filter retention clips)





(36

Sturdy cabinet
15" wide control box
External gauge ports
Service trays
Integrated lift receptacles
(Optional)
Easy handling
No sharp edges
10.5" High-Slim Air Handlers
Convertible return air
arrangement
Provision for ½" & 1" filter

Easy Hi/Lo voltage hookup

Flexibility in drain connection

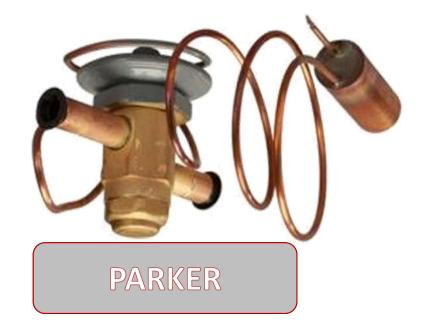
Model	Length (Inch)	Height (Inch)	Qty.
18	16.6	10.1	1
22	16.6	10.1	1
28	22.6	10.1	1
32	22.6	10.1	1
42	18.35	11.125	2
48	24.9	11.125	2
55	24.9	11.125	2
65	24.9	11.125	2





# **Piston / TXV**

- TXV is in Indoor Unit
- No need to insulate liquid pipe
- Piston up to model 32
- TXV in models 42/48/55/65



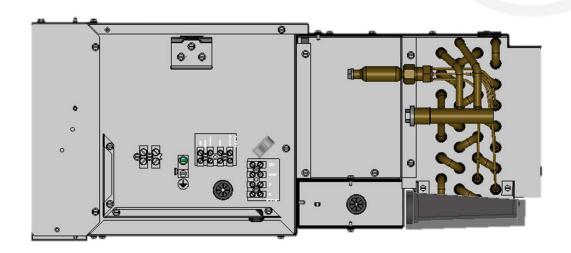
TXV

- Better cooling at high ambient
- Reliable: Protect Compressor from liquid





Sturdy cabinet
15" wide control box
External gauge ports
Service trays
Integrated lift receptacles
(Optional)
Easy handling
No sharp edges
10.5" High-Slim Air Handlers
Convertible return air
arrangement
Provision for ½" & 1" filter
Easy Hi/Lo voltage hookup
Flexibility in drain connection



#### **EASILY ACCESSIBLE Electrical connections**

Field Connections separately on side Easy to access

- Ease of access
- Simple field connections





 $(360)^{-1}$ 

Sturdy cabinet
15" wide control box
External gauge ports
Service trays
Integrated lift receptacles
(Optional)
Easy handling
No sharp edges
10.5" High-Slim Air Handlers
Convertible return air
arrangement
Provision for ½" & 1" filter
Easy Hi/Lo voltage hookup
Flexibility in drain connection

# **DRAIN PAN**

Drain connection provision on both sides

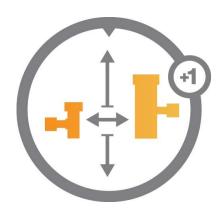
- Flexibility in installation
- Saves space











PlusOne™ Filter provisions (1/2", 1")



#### **Feature**

- Standard unit has provision to accommodate ½" and 1" filters (field supplied)
- Separate locking spaces for different size filter

# **Benefits**

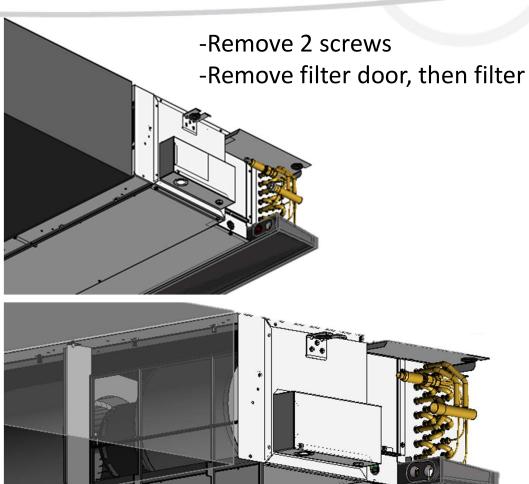
- Flexibility of changing filter size in field
- No need to order separate unit from factory





#### Bottom removable filter

Ease of access -Electricals
Ease of access-Drain Pan
Removable fan deck
Diagnosis-Error codes
Corner service access
Diagnostic service window
Filter Drier
35% less fasteners
Single row coils
Service friendly outdoor fan
Smart Component placement
Easy disassembly/re-assembly



#### **Benefit:**

• Easy filter cleaning in case of return air ducting





# Bottom removable filter Ease of access -Electricals

Ease of access-Drain Pan
Removable fan deck
Diagnosis-Error codes
Corner service access
Diagnostic service window
Filter Drier
35% less fasteners
Single row coils
Service friendly outdoor fan
Smart Component placement
Easy disassembly/re-assembly

# **SERVICEABILITY**

- Compressor : Can be easily removed after removing the top panel.
- Complete Electrical section is accessible through service panel.





- Ample space to access electrical connections
- Saves time to service





Bottom removable filter Ease of access -Electricals

#### Ease of access-Drain Pan

Removable fan deck
Diagnosis-Error codes
Corner service access
Diagnostic service window
Filter Drier
35% less fasteners
Single row coils
Service friendly outdoor fan
Smart Component placement
Easy disassembly/re-assembly





#### EASILY ACCESSIBLE DRAIN PAN

Easy access for servicing & cleaning purpose through bottom under installed condition without disturbing the installation of the unit.

- Less time required to clean drain pan
- Can be serviced without stopping the unit

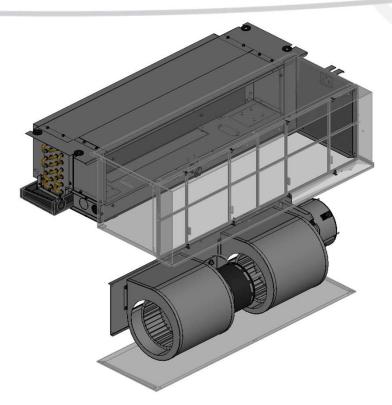




Bottom removable filter
Ease of access -Electricals
Ease of access-Drain Pan

#### Removable fan deck

Diagnosis-Error codes
Corner service access
Diagnostic service window
Filter Drier
35% less fasteners
Single row coils
Service friendly outdoor fan
Smart Component placement
Easy disassembly/re-assembly



# **Blower Motor Access**

Easily removable blower motor assembly from bottom

- Easy to service
- Time saving







Bottom removable filter Ease of access -Electricals Ease of access-Drain Pan Removable fan deck

#### Diagnosis-Error codes

Corner service access
Diagnostic service window
Filter Drier
35% less fasteners
Single row coils
Service friendly outdoor fan
Smart Component placement
Easy disassembly/re-assembly

# Diagnosis codes

# Diagnosis codes on thermostat

- HP/LP
- Anti Freeze
- Loss of communication
- Sensor fault
- Lock out

- Easy diagnosis
- System protection





# 360° Serviceability™

Bottom removable filter Ease of access -Electricals Ease of access-Drain Pan Removable fan deck Diagnosis-Error codes

#### Corner service access

Diagnostic service window
Filter Drier
35% less fasteners
Single row coils
Service friendly outdoor fan
Smart Component placement
Easy disassembly/re-assembly



- ✓ Control box
- ✓ Service valves
- ✓ Service window



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# 360° Serviceability™

Bottom removable filter
Ease of access -Electricals
Ease of access-Drain Pan
Removable fan deck
Diagnosis-Error codes
Corner service access

#### Diagnostic service window

Filter Drier
35% less fasteners
Single row coils
Service friendly outdoor fan
Smart Component placement
Easy disassembly/re-assembly



- ✓ Access to TXV (HP)
- ✓ Access to reversing valve (HP)
- ✓ Access to high/low pressure (AC)
- ✓ Access to temperatures (HP)
- ✓ Unit operation while off

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Bottom removable filter
Ease of access -Electricals
Ease of access-Drain Pan
Removable fan deck
Diagnosis-Error codes
Corner service access
Diagnostic service window

#### Filter Drier

35% less fasteners
Single row coils
Service friendly outdoor fan
Smart Component placement
Easy disassembly/re-assembly

# FILTER DRIER

- Filter drier is supplied loose as standard accessory with the units for installation in liquid line in field.
- The filter drier prevents the unwanted moisture in the system and help in enhancing the life of the system.



#### **Benefit:**

External installed drier – easy to service





Bottom removable filter
Ease of access -Electricals
Ease of access-Drain Pan
Removable fan deck
Diagnosis-Error codes
Corner service access
Diagnostic service window
Filter Drier

#### 35% less fasteners

Single row coils Service friendly outdoor fan Smart Component placement Easy disassembly/re-assembly

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Bottom removable filter
Ease of access -Electricals
Ease of access-Drain Pan
Removable fan deck
Diagnosis-Error codes
Corner service access
Diagnostic service window
Filter Drier
35% less fasteners
Single row coils

Service friendly outdoor fan Smart Component placement Easy disassembly/re-assembly

# One Row Condenser Coil

Easy to wash and clean No dust trap concern like two row coils



#### **Benefit:**

- Better performance
- Long life of condenser

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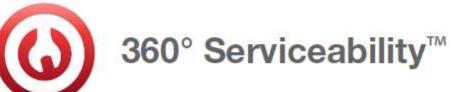


Bottom removable filter
Ease of access -Electricals
Ease of access-Drain Pan
Removable fan deck
Diagnosis-Error codes
Corner service access
Diagnostic service window
Filter Drier
35% less fasteners
Single row coils
Service friendly outdoor fan
Smart Component placement
Easy disassembly/re-assembly

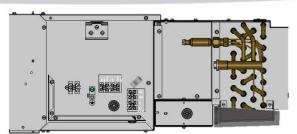


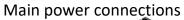
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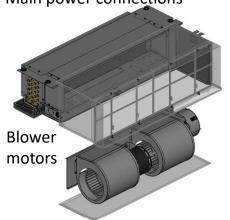


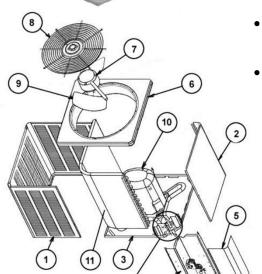


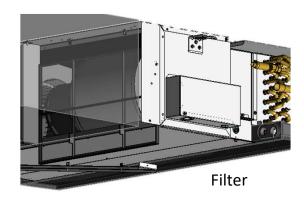
Bottom removable filter Ease of access -Electricals Ease of access-Drain Pan Removable fan deck Diagnosis-Error codes Corner service access Diagnostic service window Filter Drier 35% less fasteners Single row coils Service friendly outdoor fan **Smart Component placement** Easy disassembly/re-assembly











- All components position aptly selected.
- Heavy components like compressor, motor in center to balance the unit

#### Benefit:

 Overall very easy to access and service





Bottom removable filter
Ease of access -Electricals
Ease of access-Drain Pan
Removable fan deck
Diagnosis-Error codes
Corner service access
Diagnostic service window
Filter Drier
35% less fasteners
Single row coils
Service friendly outdoor fan
Smart Component placement
Easy disassembly/re-assembly





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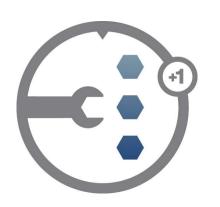












PlusOne™ **Triple Service Access** 



#### **Feature**

• Triple Service Access maximizes Serviceability by providing easy access to all components

#### **Benefits**

- 15" wide control box access opens by removing two fasteners
- Two fastener removable corner allowing ideal access to units internal components
- Single fastener to remove louver panel for easy coil cleaning















**Indoor Unit** 



PROUDLY MADE IN NORTH AMERICA

**Outdoor Unit**