

# Portable Cooling

**Skil-aire™**

Do It Up! *A Division of Tithe Corporation*

Excellence In Air Conditioning  
and Environmental Control  
Systems



## Roving Cooler

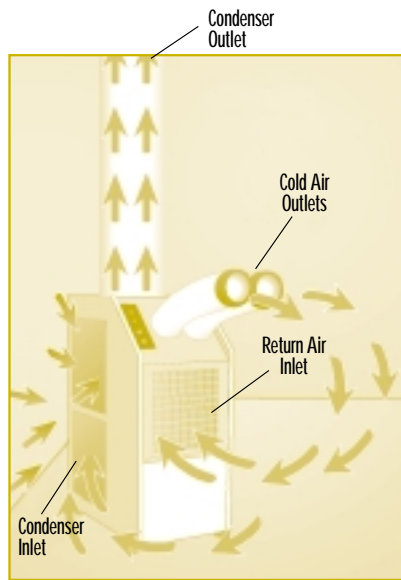
- 1, 1 1/2, 2 , 3 1/2 and 5 Ton Capacities
- Perfect for ATM Rooms, Computer Rooms  
Special Events and Kiosks
- Digital thermostat with Condensate Pump and Adjustable  
Cool Air Plenums
- Compact with Mounted Casters for Convenient Mobility

www. **Skil-aire** .com 800-625-7545

# Roving Cooler

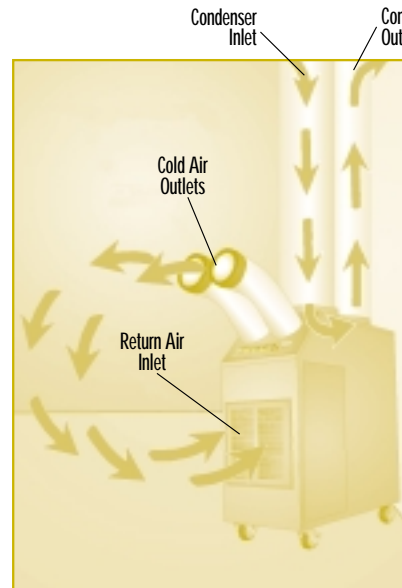
*Skil-aire™ Built to Last With Design Features That Assure Superior Performance and Dependability.*

## Other Coolers



Condenser air is removed by drawing cooled air from the room creating a negative pressure in the room and pulling in dust, dirt, humidity and unconditioned air.

## Roving Cooler™



Condenser air is isolated, cold air is recirculated and recooled. Full unit capacity is available; cold air is not removed from the room.

**Applications** The innovative Roving Cooler™ is a durable, reliable answer to today's complex spot cooling challenges. Ideal for where-you-need-it, When-you-need-it cooling, the Roving Cooler™ is expertly designed to be readily mobile to meet emergency needs for primary cooling or for transient supplementary needs. These units boast features normally found only in traditional central A/C systems such as independent evaporator and condenser air streams and integrated digital controls. Roving Coolers are designed to operate in conditions from 60-110 degrees F which makes them perfect for many otherwise impossible applications both in and out of doors. Use them during service of the primary system or during construction of general office space or retrofit Roving Coolers™ into telecom/computer rooms for expansion. Roving Coolers™ are perfect for Special Events, ATM's, concession areas and kiosks.

**Features and Benefits** The Skil-aire Roving Cooler™, packaged air-conditioners are available in air or water cooled models. All models have high external static capabilities which allow for the maximum airflow even with long flexible ducting (up to 25'). These compact units fit through standard 30" doors and are mounted on four or six heavy duty locking casters for convenient location and storage.

The durable 20-gauge steel cabinet with special e-z clean, scratch-proof coating affords corrosion protection and provides an attractive appearance with virtually no maintenance. Evaporator air is continuously circulated through the front of the unit and condenser air through the top of the unit by draw through, forward curved, direct drive centrifugal blowers. Large face area coils eliminate condensate carryover while optimizing heat transfer. Coils are constructed of heavy wall seamless copper tubes mechanically expanded to aluminum fins. A full condensate tank, with overflow safety cut out and alarms is standard, insuring all condensate is collected and properly protected. Standard 1" disposable filters with an arrestance value exceeding 90% are standard.

The factory installed water cooled condenser is a co-axial counterflow design carefully selected to maintain low refrigerant operating pressures using a minimum quantity of water. Maximum operating water pressure with standard factory installed 2-way pressure regulating valve is 150 PSIG.

Heavy duty rotary or reciprocating compressors are standard, as are automatic restart and short-cycle protection. These quiet compressors provide dependable, proven, long-term service.

Each Roving Cooler includes an adjustable thermal expansion valve control with external equalizer, sight glass/moisture indicator, filter drier, and liquid and suction Schrader fittings for charging. All controls, condensate system and major components are conveniently accessible from a single locking access door. Sight glass and service ports are located outside the unit.

All electrical components are conveniently located in the side of the unit, permitting fast inspection or servicing, even when the unit is operating. Factory installed electrical components include color coded wiring, inherent protection on all motor legs, motor contractors, hi-lo pressure switches, oversized 24-volt control transformer, and control circuit field terminals for interconnection with the controls.

Each Roving Cooler™ is controlled by a digital thermostat and comes complete with condensate pump and adjustable cool air plenums for maximum ease of use with minimum concern.

Every unit is factory charged and run-tested, insuring trouble-free operation when received on the job. A complete maintenance manual is shipped with each unit.

Roving Coolers™ are provided with a one year replacement parts warranty. Five year extended compressor warranties are also available. Please consult our authorized business partner for details.

Model Number	A(W) 12	A(W) 18	A(W) 24	A(W) 42	A(W) 60
<b>Cooling Capacity</b>					
Nominal BTU/hr @ 95°F at 60% RH	12,000 (1 ton)	18,000 (1.5 Tons)	24,000 (2 Tons)	42,000 3-1/2 tons	60,000 (5 Tons)
<b>Compressor Data</b>					
Compressor Type	Hermetic Rotary	Hermetic Rotary	Hermetic Rotary	Hermetic Rotary	Hermetic Recip.
Operating Temperatures	60-110F. 50%RH	60-110F. 50%RH	60-110F. 50%RH	60-110F. 50%RH	60-110F. 50%RH
R-22 Refrigerant Charge (lbs)	3.2	3.7	4.8	5.9	6.9
<b>Fan Data</b>					
Evaporator					
Fan Type (Centrifugal)	Direct Drive	Direct Drive	Direct Drive	Direct Drive	Direct Drive
Air Flow (CFM)	400	600	800	1400	2000
Supply Air Chute Data	2-5"x16"	2-5"x16"	2-6"x18"	2-8"x21"	2-10"x24"
Supply Air Chute Max. Length	15'	25'	20'	25'	25'
Max. Ext. Static	.12	.25 (.14)	.14	.20 (.28)	.28 (.26)
Motor HP	1/6 (1/5)	1/4	1/4	1/2 (1)	1
Condenser					
Fan Type (Centrifugal)	Direct Drive	Direct Drive	Direct Drive	Direct Drive	Belt Drive
Air Flow (CFM)	600	1250	1400	2100	3000
Condenser Hose Data (Optional)	2-12"x8'	2-12"x8'	2-14"x8'	2-18"x8'	20"x8'
Condenser Hose Max. Length	25'	25'	25'	25'	25'
Max. Ext. Static	.29	.3	.14	.24	.30
Motor HP	1/3	1/4	1/2	2	3
<b>Data</b>					
Flow Regulating Valve	Automatic	Automatic	Automatic	Automatic	Automatic
Inlet Water 85°F-95°F Exit (GPM)	3.00	4.50	6.00	10.50	15.00
Inlet Water 75°F-95°F Exit (GPM)	1.50	2.25	3.00	5.25	7.50
Inlet Water 65°F-95°F Exit (GPM)	1.00	1.50	2.00	3.50	5.00
Inlet Water 55°F-95°F Exit (GPM)	0.75	1.20	1.50	2.75	3.75
<b>Electrical Data</b>					
Power Supply (Volts)	115-10*	115-10*	230-10*	230-10(* & **)	230-10(* & **)
Current Consumption (Amps)	18.2 (9.75)	17.9 (16.5)	12.5 (9.5)	33.75 (25.5)	45.5 (33.5)
Power Consumption (KW)	1.9 (1.15)	2.0 (1.9)	2.8 (2.12)	7.5 (5.35)	10.5 (7.7)
Maximum Circuit Breaker (Amps)	20	20	20	40	60 (40)
Minimum Circuit Ampacity (Amps)	18.3 (10.93)	18.15 (16.75)	15.24 (10.95)	34.54 (25.25)	48.55 (38.45)
Min/Max Voltage	105-125	105-125	195-250	195-250	195-250
Power Cord Gauge/Length	14 AWG/6'	12 AWG/6'	12 AWG/6'	10 AWG/10'	8 AWG/10'
Plug Configuration	NEMA 5-15	NEMA 5-20	NEMA 6/20	Field Supplied	Field Supplied
<b>Dimensional Data</b>					
Width (Inches)	16.25	16.25	20.25	22.25	24.25
Depth (Inches)	35.5 (22)	35.5 (22)	41 (22)	48 (32)	53 (26)
Height (Inches)	40.5	40.5	41.5	47.5 (48)	57.5 (53)
Weight (Lbs.)	174 (115)	217 (151)	273 (185)	426 (285)	557 (360)
Shipping Weight (Lbs.)	204 (145)	247 (181)	308 (215)	466 (325)	597 (390)
<b>Safety Device Data</b>					
Compressor Overload	Internal	Internal	Internal	Internal	Internal
Fan Motor Overload	Automatic Internal	Automatic Internal	Automatic Internal	Automatic Internal	Automatic Internal
Evaporator Freeze-up	HGBP (None)	Hot Gas Bypass	Hot Gas Bypass	Hot Gas Bypass	Hot Gas Bypass
High Pressure Switch	Manual	Manual	Manual	Manual	Manual
Low Pressure Switch	No	Automatic	Automatic	Automatic	Automatic
Compressor Short Cycle	Yes	Yes	Yes	Yes	Yes
Automatic Restart	Yes	Yes	Yes	Yes	Yes
Thermostat	Digital	Digital	Digital	Digital	Digital
Condensate Pump Overflow	N/A	Yes	Yes	Yes	Yes
Condensate Tank Overflow	Yes	Yes	Yes	Yes	Yes

# Do It Up!



Model A/W 12



Model A/W 18



Model A/W 24

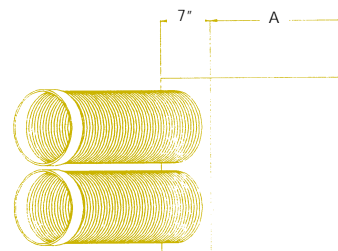
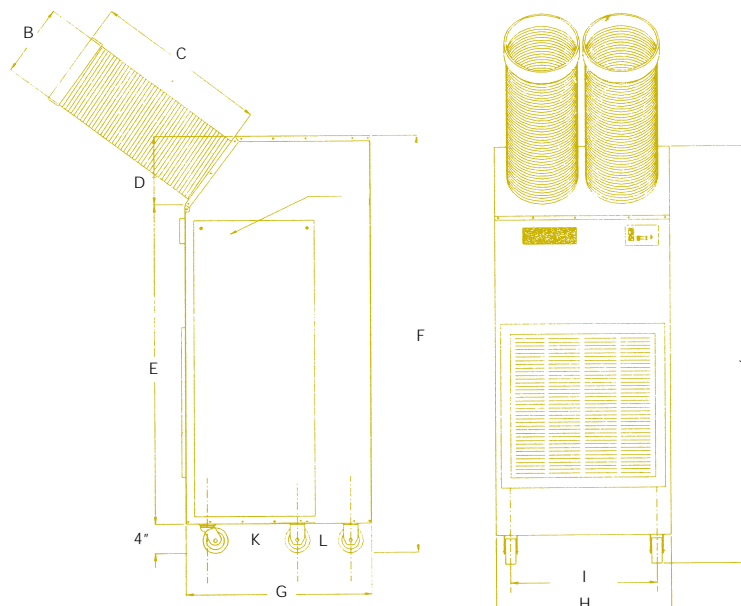


Model A/W 42



Model A/W 60

# Typical Dimensions



DIMENSIONS											
Model No.	A	B	C	D	E	F	G	H	I	J	L
A 12	28½	5	16	8½	28	40½	35½	16¼	12¼	40½	29½ *
A 18	28½	5	16	8½	28	40½	35½	16¼	12¼	40½	29½ *
A 24	34	6	18	9½	28	41½	41	20¼	16¼	41½	35 *
A 42	41	8	21	9½	34	47½	48	22¼	18¼	47½	21 21
A 60	46	10	24	9½	44	57½	53	24½	20¼	57½	23½ 23½
W 12	15	5	16	8½	28	40½	22	16¼	12¼	40½	16 *
W 18	15	5	16	8½	28	40½	22	16¼	12¼	40½	16 *
W 24	15	6	18	9½	28	41½	22	20¼	16¼	41½	16 *
W 42		8	21	9½	34	47½	24	22¼	18¼	47½	21 *
W 60	19	10	24	9½	44	57½	26	24½	20¼	57½	23½ 23½

Skil-aire. We Hang Around All The Best Places.

# Do It Up!

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Do It Up Today, Call!

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