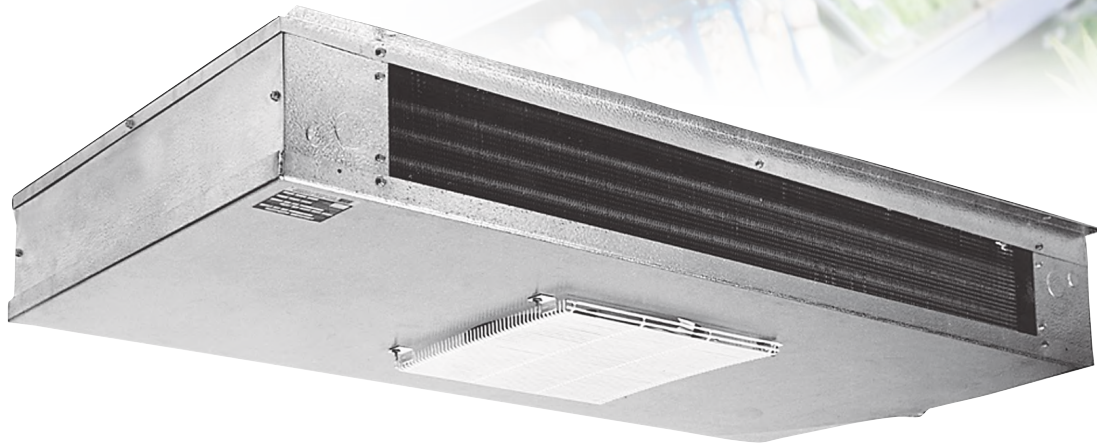




## Low Velocity Center Mount Unit Coolers

Technical Guide

Models CWA | CWE | CWG



**CLIMATE**  
  
**CONTROL**

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## Choose the most energy-efficient motor available for evaporators.



The EC motor is an energy efficient option on Climate Control Low Velocity Center Mount Unit Coolers. Available on all new equipment or as an easy-to-install, drop-in replacement aftermarket part from InterLink™ Commercial Refrigeration Parts. Because they are a drop-in replacement for existing shaded pole and PSC motors, installation is quick and easy. It's a high impact, quick payback solution for reducing costs and achieving green initiatives without replacing the entire system.

EC motors by InterLink are up to 75% energy efficient - that's a 51-59% increase over shaded pole motors and a 30-35% increase over permanent-split capacitor (PSC) motors. With all of this added efficiency, you can count on more energy savings and lower operational costs while taking a step in the right direction toward conserving our planet's resources.

## Nomenclature

CWA	100	A	G	C
Model Series	Capacity	Electrical Code	Control Option	Design Revision
CWA= Climate Control Low Velocity Center Mount, air defrost	# BTUH x 100 (R-404A)	A = 115/1/60	G = intelliGen™	
CWE= Climate Control Low Velocity Center Mount, electric defrost		B = 208-230/1/60		
CWG= Climate Control Low Velocity Center Mount, hot gas defrost		M = 460/1/60		
		AE = 115/1/60 (EC)		
		BE = 208-230/1/60 (EC)		

# Features & Benefits

## Cabinet

- Low height makes it ideal for low ceiling coolers - larger models are only 15 inches tall, allowing for maximum headroom and more product storage
- Unit designed to be mounted flush against the ceiling or suspended on rods
- Heavy gauge grained aluminum cabinet cleans easily and looks attractive
- Stainless steel screws prevent rust streaks
- Liquid line solenoid wire harness is factory-installed for quick installation
- Wire fan guards with PVC coating for durability
- All electrical components factory wired to terminal board and identified, making it easy to field wire the unit
- Cabinet design features access panels on each end for easy access to electrical and refrigeration components
- Fan panel is lightweight and can easily be lowered for easy servicing and installation
- Expansion valve mounts inside the cabinet

## Coil

- Sweat connections to reduce potential for leaks
- Coils are dehydrated and sealed at the factory
- Internally enhanced tubing and fin design for higher efficiency
- Electric defrost models incorporate high quality tubular heaters and a standard fixed defrost termination thermostat
- Hot gas defrost models come with a shipped-loose adjustable fan delay and defrost termination thermostat

## Drain Pan

- Double drain pan eliminates drain pan sweating

## Motors

- Motor rail is design for maximum strength and durability
- Motors are life lubricated and thermal overload protected
- EC Motors available factory-installed or as a drop-in replacement through InterLink™ Commercial Refrigeration Parts in 115/1/60, 208-230/1/60
- PSC Motors are available in 460/1/60 for air and electric defrost

## Controls Options

- IntelliGen™ Refrigeration Controller (IRC) units come with factory mounted, tested and calibrated with an electronic expansion valve, pressure transducer, temperature sensors, control board and User Interface. Standard features include Door Sensor, Product Load Input and Alarm Output.
- Optional Field installable IntelliGen Webserver Card (IWC) enables local and remote monitoring on any Phone, Tablet or PC.
- Optional Field installable IntelliGen Integration Card (IIC) enables connectivity to BACnet and Modbus.
- Quick Response Controller units come factory mounted with an electronic expansion valve, pressure transducer, temperature sensors and control board.
- Beacon II™ units come factory mounted with an electronic expansion valve, pressure transducer, temperature sensors and control board.

## Other Options

- Factory installed mounted components are available in these configurations:
  - Pre-assembled units come with mounted TXV, liquid line solenoid valve and room thermostat
  - Pre-charged units come with mounted TXV, liquid line solenoid valve, room thermostat, and quick connect fittings
  - Mounted TXV
  - Mounted TXV and solenoid valve
  - Mounted room thermostat
- Most models available with glycol circuiting (see glycol product brochure)
- Units available with stainless steel housing and drain pan
- Units available with copper fins. Air defrost units available with polyester coated fins, or various coil coating options

# PERFORMANCE DATA

## Model CWA Air Defrost | 60 Hz

Model	Capacity								Fan Data		
	R-404A				R-407A/C/F, R-448A/R-449A				No.	CFM	m³h
	10°F TD 25°F SST	6°C TD -4°C SST	15°F TD 25°F SST	8°C TD -4°C SST	10°F TD 25°F SST	6°C TD -4°C SST	15°F TD 25°F SST	8°C TD -4°C SST			
	BTUH	Watts	BTUH	Watts	BTUH	Watts	BTUH	Watts			
CWA050	5,000	1,460	7,500	2,200	5,800	1,700	8,700	2,550	1	725	1,233
CWA075	7,500	2,200	11,250	3,300	8,400	2,460	12,600	3,690	1	730	1,241
CWA100	10,000	2,930	15,000	4,390	11,600	3,400	17,400	5,100	2	1,450	2,465
CWA130	13,000	3,810	19,500	5,710	14,300	4,190	21,450	6,285	2	1,470	2,499
CWA155	15,500	4,540	23,250	6,810	17,360	5,100	26,040	7,650	2	1,460	2,482
CWA180	18,000	5,270	27,000	7,910	20,880	6,120	31,320	9,180	3	2,130	3,621
CWA210	21,000	6,150	31,500	9,230	23,940	7,020	35,910	10,530	4	2,840	4,828
CWA270	27,000	7,910	40,500	11,860	31,860	9,340	47,790	14,010	4	2,800	4,760
CWA340	34,000	9,960	51,000	14,940	40,120	11,760	60,180	17,640	5	3,500	5,950

## Model CWA Air Defrost | 50 Hz<sup>†</sup>

Model	Capacity								Fan Data		
	R-404A				R-407A/C/F, R-448A/R-449A				No.	CFM	m³h
	10°F TD 25°F SST	6°C TD -4°C SST	15°F TD 25°F SST	8°C TD -4°C SST	10°F TD 25°F SST	6°C TD -4°C SST	15°F TD 25°F SST	8°C TD -4°C SST			
	BTUH	Watts	BTUH	Watts	BTUH	Watts	BTUH	Watts			
CWA050	4,750	1,390	7,130	2,090	5,510	1,610	8,265	2,415	1	660	1,122
CWA075	7,130	2,090	10,690	3,140	7,980	2,340	11,970	3,510	1	660	1,122
CWA100	9,500	2,780	1,430	4,170	11,020	3,230	16,530	4,845	2	1,310	2,227
CWA130	12,350	3,620	18,530	5,420	13,590	3,980	20,385	5,970	2	1,330	2,261
CWA155	14,730	4,310	22,090	6,470	16,490	4,850	24,735	7,275	2	1,320	2,244
CWA180	17,100	5,010	25,650	7,510	19,840	5,810	29,760	8,715	3	1,920	3,264
CWA210	19,950	5,840	29,930	8,770	22,740	6,670	34,110	10,005	4	2,560	4,352
CWA270	25,650	7,510	38,480	11,270	30,270	8,870	45,405	13,305	4	2,530	4,301
CWA340	32,300	9,460	48,450	14,190	38,110	11,170	57,165	16,755	5	3,160	5,372

<sup>†</sup> For EC motors, use 60 Hz capacity and airflow values (Units with EC motors operating at 50 Hz will not see a reduction in performance due to the electronic control of the motor)

# SPECIFICATIONS

## Model CWA Air Defrost | 60 Hz

Model	PSC Motor						EC Motor			
	115/1/60		230/1/60		460/1/60		115/1/60		230/1/60	
	Amps	Watts	Amps	Watts	Amps	Watts	Amps	Watts	Amps	Watts
CWA050	0.9	90	0.5	90	0.4	117	0.9	55	0.5	55
CWA075	0.9	90	0.5	90	0.4	117	0.9	55	0.5	55
CWA100	1.8	180	1.0	180	0.8	234	1.8	110	1.0	110
CWA130	1.8	180	1.0	180	0.8	234	1.8	110	1.0	110
CWA155	1.8	180	1.0	180	0.8	234	1.8	110	1.0	110
CWA180	2.7	270	1.5	270	1.2	351	2.7	165	1.5	165
CWA210	3.6	360	2.0	360	1.6	468	3.6	220	2.0	220
CWA270	3.6	360	2.0	360	1.6	468	3.6	220	2.0	220
CWA340	4.5	450	2.5	450	2.0	585	4.5	275	2.5	275

## Model CWA Air Defrost | 50 Hz

Model	PSC Motor				EC Motor			
	110/1/50		220/1/50		110/1/50		220/1/50	
	Amps	Watts	Amps	Watts	Amps	Watts	Amps	Watts
CWA050	0.8	80	0.4	80	0.9	55	0.5	55
CWA075	0.8	80	0.4	80	0.9	55	0.5	55
CWA100	1.7	160	0.8	160	1.8	110	1.0	110
CWA130	1.7	160	0.8	160	1.8	110	1.0	110
CWA155	1.7	160	0.8	160	1.8	110	1.0	110
CWA180	2.5	240	1.2	240	2.7	165	1.5	165
CWA210	3.3	320	1.6	320	3.6	220	2.0	220
CWA270	3.3	320	1.6	320	3.6	220	2.0	220
CWA340	4.2	400	2.0	400	4.5	275	2.5	275

# PERFORMANCE DATA

## Model CWE Electric Defrost | 60 Hz

Model	Capacity								Fan Data		
	R-404A				R-407A/C/F, R-448A/R-449A				No.	CFM	m³h
	10°F TD 25°F SST	6°C TD -4°C SST	15°F TD 25°F SST	8°C TD -4°C SST	10°F TD 25°F SST	6°C TD -4°C SST	15°F TD 25°F SST	8°C TD -4°C SST			
	BTUH	Watts	BTUH	Watts	BTUH	Watts	BTUH	Watts			
CWE050	5,000	1,460	7,500	2,200	5,800	1,700	8,700	2,550	1	725	1,233
CWE075	7,500	2,200	11,250	3,300	8,400	2,460	12,600	3,690	1	730	1,241
CWE100	10,000	2,930	15,000	4,390	11,600	3,400	17,400	5,100	2	1,450	2,465
CWE130	13,000	3,810	19,500	5,710	14,300	4,190	21,450	6,285	2	1,470	2,499
CWE155	15,500	4,540	23,250	6,810	17,360	5,100	26,040	7,650	2	1,460	2,482
CWE180	18,000	5,270	27,000	7,910	20,880	6,120	31,320	9,180	3	2,130	3,621
CWE210	21,000	6,150	31,500	9,230	23,940	7,020	35,910	10,530	4	2,840	4,828
CWE270	27,000	7,910	40,500	11,860	31,860	9,340	47,790	14,010	4	2,800	4,760
CWE340	34,000	9,960	51,000	14,940	40,120	11,760	60,180	17,640	5	3,500	5,950

## Model CWE Electric Defrost | 50 Hz†

Model	Capacity								Fan Data		
	R-404A				R-407A/C/F, R-448A/R-449A				No.	CFM	m³h
	10°F TD 25°F SST	6°C TD -4°C SST	15°F TD 25°F SST	8°C TD -4°C SST	10°F TD 25°F SST	6°C TD -4°C SST	15°F TD 25°F SST	8°C TD -4°C SST			
	BTUH	Watts	BTUH	Watts	BTUH	Watts	BTUH	Watts			
CWE050	4,750	1,390	7,130	2,090	5,510	1,610	8,265	2,415	1	660	1,122
CWE075	7,130	2,090	10,690	3,140	7,980	2,340	11,970	3,510	1	660	1,122
CWE100	9,500	2,780	1,430	4,170	11,020	3,230	16,530	4,845	2	1,310	2,227
CWE130	12,350	3,620	18,530	5,420	13,590	3,980	20,385	5,970	2	1,330	2,261
CWE155	14,730	4,310	22,090	6,470	16,490	4,850	24,735	7,275	2	1,320	2,244
CWE180	17,100	5,010	25,650	7,510	19,840	5,810	29,760	8,715	3	1,920	3,264
CWE210	19,950	5,840	29,930	8,770	22,740	6,670	34,110	10,005	4	2,560	4,352
CWE270	25,650	7,510	38,480	11,270	30,270	8,870	45,405	13,305	4	2,530	4,301
CWE340	32,300	9,460	48,450	14,190	38,110	11,170	57,165	16,755	5	3,160	5,372

† For EC motors, use 60 Hz capacity and airflow values (Units with EC motors operating at 50 Hz will not see a reduction in performance due to the electronic control of the motor)

# SPECIFICATIONS

## Model CWE Electric Defrost | 60 Hz

Model	PSC Motor				EC Motor		Watts	Defrost Heaters	
	230/1/60		460/1/60		230/1/60			230/1/60	460/1/60
	Amps	Watts	Amps	Watts	Amps	Watts	Total Amps		
CWE050	0.5	90	0.4	117	0.5	55	2,000	8.7	4.4
CWE075	0.5	90	0.4	117	0.5	55	2,400	10.5	5.3
CWE100	1.0	180	0.8	234	1.0	110	2,800	12.2	6.1
CWE130	1.0	180	0.8	234	1.0	110	4,000	17.4	8.7
CWE155	1.0	180	0.8	234	1.0	110	4,000	17.4	8.7
CWE180	1.5	270	1.2	351	1.5	165	4,000	17.4	8.7
CWE210	2.0	360	1.6	468	2.0	220	5,200	22.6	11.3
CWE270	2.0	360	1.6	468	2.0	220	5,200	22.6	11.3
CWE340	2.5	450	2.0	585	2.5	275	7,000	30.4	15.2

## Model CWE Electric Defrost | 50 Hz

Model	PSC Motor		EC Motor		Watts	230/1/60 Total Amps
	22/1/50		220/1/50			
	Amps	Watts	Amps	Watts		
CWE050	0.4	80	0.5	55	1,830	8.3
CWE075	0.4	80	0.5	55	2,200	10.0
CWE100	0.8	160	1.0	110	2,560	11.6
CWE130	0.8	160	1.0	110	3,660	16.6
CWE155	0.8	160	1.0	110	3,660	16.6
CWE180	1.2	240	1.5	165	3,660	16.6
CWE210	1.6	320	2.0	220	4,760	21.6
CWE270	1.6	320	2.0	220	4,760	21.6
CWE340	2.0	400	2.5	275	6,400	29.1

# PERFORMANCE DATA

## Model CWG Hot Gas Defrost | 60 Hz

Model	Capacity								Fan Data		
	R-404A				R-407A/C/F, R-448A/R-449A				No.	CFM	m <sup>3</sup> h
	10°F TD 25°F SST	6°C TD -4°C SST	15°F TD 25°F SST	8°C TD -4°C SST	10°F TD 25°F SST	6°C TD -4°C SST	15°F TD 25°F SST	8°C TD -4°C SST			
	BTUH	Watts	BTUH	Watts	BTUH	Watts	BTUH	Watts			
CWG100	10,000	2,930	15,000	4,390	11,600	3,400	17,400	5,100	2	1,450	2,465
CWG130	13,000	3,810	19,500	5,710	14,300	4,190	21,450	6,285	2	1,470	2,499
CWG155	15,500	4,540	23,250	6,810	17,360	5,100	26,040	7,650	2	1,460	2,482
CWG180	18,000	5,270	27,000	7,910	20,880	6,120	31,320	9,180	3	2,130	3,621
CWG210	21,000	6,150	31,500	9,230	23,940	7,020	35,910	10,530	4	2,840	4,828
CWG270	27,000	7,910	40,500	11,860	31,860	9,340	47,790	14,010	4	2,800	4,760
CWG340	34,000	9,960	51,000	14,940	40,120	11,760	60,180	17,640	5	3,500	5,950

## Model CWG Hot Gas Defrost | 50 Hz<sup>†</sup>

Model	Capacity								Fan Data		
	R-404A				R-407A/C/F, R-448A/R-449A				No.	CFM	m <sup>3</sup> h
	10°F TD 25°F SST	6°C TD -4°C SST	15°F TD 25°F SST	8°C TD -4°C SST	10°F TD 25°F SST	6°C TD -4°C SST	15°F TD 25°F SST	8°C TD -4°C SST			
	BTUH	Watts	BTUH	Watts	BTUH	Watts	BTUH	Watts			
CWG100	9,500	2,780	1,430	4,170	11,020	3,230	16,530	4,845	2	1,310	2,227
CWG130	12,350	3,620	18,530	5,420	13,590	3,980	20,385	5,970	2	1,330	2,261
CWG155	14,730	4,310	22,090	6,470	16,490	4,850	24,735	7,275	2	1,320	2,244
CWG180	17,100	5,010	25,650	7,510	19,840	5,810	29,760	8,715	3	1,920	3,264
CWG210	19,950	5,840	29,930	8,770	22,740	6,670	34,110	10,005	4	2,560	4,352
CWG270	25,650	7,510	38,480	11,270	30,270	8,870	45,405	13,305	4	2,530	4,301
CWG340	32,300	9,460	48,450	14,190	38,110	11,170	57,165	16,755	5	3,160	5,372

<sup>†</sup> For EC motors, use 60 Hz capacity and airflow values (Units with EC motors operating at 50 Hz will not see a reduction in performance due to the electronic control of the motor)

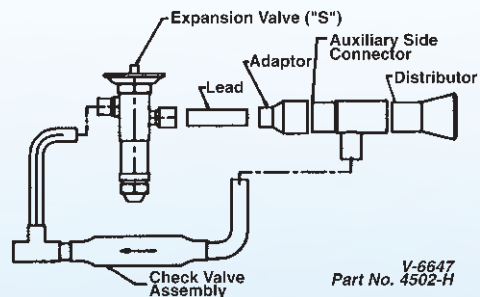
## Optional Liquid Line Bypass Kit For Hot Gas Defrost

The CWG may be field piped for hot gas defrost using the optional bypass kit.

When compressor vapor, in reverse cycle defrosting, is directed back into the evaporator at the suction connection, it condenses into liquid. The field-installed liquid line bypass kit directs the condensed liquid around the thermostatic expansion valve and back into the liquid line. Bypass kits include bypass piping, check valve and instructions. Adjustable fan control is shipped loose with hot gas units.

## TXV Bypass Kits (Hot Gas Only)

Models Used On	TXV Bypass Kits	
	Type SQE, SBF, or HFESC	Type S
	Part Number	Part Number
CWG100	89897801	89898001
CWG130 - CWG270	89897802	89898002
CWG340	89897803	89898003





# SPECIFICATIONS

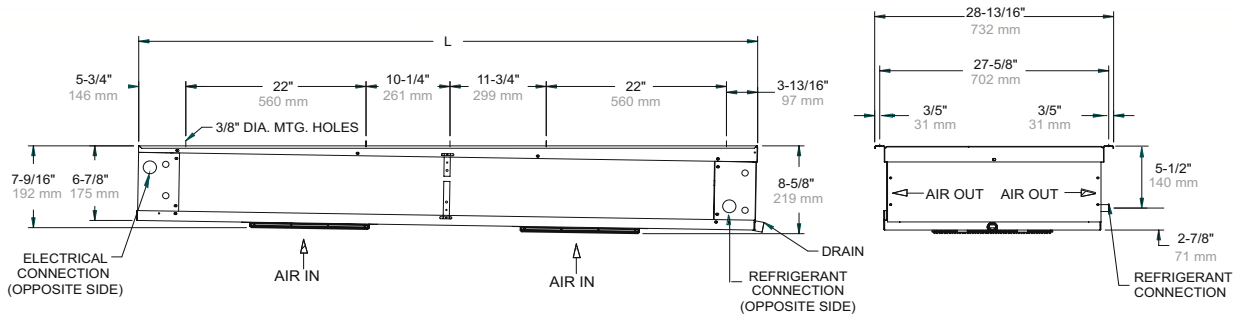
## Model CWG Hot Gas Defrost | 60 Hz

Model	PSC Motor				EC Motor				Drain Pan Heaters		
	230/1/60		460/1/60		115/1/60		230/1/60		Watts	115/1/60	230/1/60
	Amps	Watts	Amps	Watts	Amps	Watts	Amps	Watts		Total Amps	
CWG100	1.8	180	1.0	180	1.8	110	1.0	110	350	3.0	1.5
CWG130	1.8	180	1.0	180	1.8	110	1.0	110	500	4.4	2.2
CWG155	1.8	180	1.0	180	1.8	110	1.0	110	500	4.4	2.2
CWG180	2.7	270	1.5	270	2.7	165	1.5	165	500	4.4	2.2
CWG210	3.6	360	2.0	360	3.6	220	2.0	220	650	5.7	2.8
CWG270	3.6	360	2.0	360	3.6	220	2.0	220	650	5.7	2.8
CWG340	4.5	450	2.5	450	4.5	275	2.5	275	875	7.6	3.8

## Model CWG Hot Gas Defrost | 50 Hz

Model	PSC Motor				EC Motor				Drain Pan Heaters		
	230/1/60		460/1/60		115/1/60		230/1/60		Watts	115/1/60	230/1/60
	Amps	Watts	Amps	Watts	Amps	Watts	Amps	Watts		Total Amps	
CWG100	1.7	160	0.8	160	1.8	110	1.0	110	320	2.9	1.5
CWG130	1.7	160	0.8	160	1.8	110	1.0	110	460	4.2	2.1
CWG155	1.7	160	0.8	160	1.8	110	1.0	110	460	4.2	2.1
CWG180	2.5	240	1.2	240	2.7	165	1.5	165	460	4.2	2.1
CWG210	3.3	320	1.6	320	3.6	220	2.0	220	595	5.4	2.7
CWG270	3.3	320	1.6	320	3.6	220	2.0	220	595	5.4	2.7
CWG340	4.2	400	2.0	400	4.5	275	2.5	275	800	7.3	3.6

# DIMENSIONAL DATA



**NOTE:** All units have 1/4" OD external equalizer and 3/4" FPT drain connection

## Model CWA Air Defrost

Model	No. of Fans	Dimensions	
		In.	mm
CWA050	1	31-1/2	800
CWA075	1	31-1/2	800
CWA100	2	53-1/2	1,359
CWA130	2	53-1/2	1,359
CWA155	2	53-1/2	1,359
CWA180	3	75-1/2	1,918
CWA210	4	97-1/2	2,477
CWA270	4	97-1/2	2,477
CWA340	5	119-1/2	3,035

## Model CWE Electric Defrost

Model	No. of Fans	Dimensions	
		In.	mm
CWE050	1	31-1/2	800
CWE075	1	31-1/2	800
CWE100	2	53-1/2	1,359
CWE130	2	53-1/2	1,359
CWE155	2	53-1/2	1,359
CWE180	3	75-1/2	1,918
CWE210	4	97-1/2	2,477
CWE270	4	97-1/2	2,477
CWE340	5	119-1/2	3,035

## Model CWG Hot Air Defrost

Model	No. of Fans	Dimensions	
		In.	mm
CWG100	2	53-1/2	1,359
CWG130	2	53-1/2	1,359
CWG155	2	53-1/2	1,359
CWG180	3	75-1/2	1,918
CWG210	4	97-1/2	2,477
CWG270	4	97-1/2	2,477
CWG340	5	119-1/2	3,035

## Replacement Parts



Right source. Right parts. Right now.

InterLink™ is your link to a complete line of dependable and certified commercial refrigeration parts, accessories and innovative electronic controls for all Climate Control equipment. At InterLink, we provide our wholesalers with a comprehensive selection of product solutions and innovative technologies for the installed customer base. And every product is built to ensure the same high performance standards with which all Heatcraft Refrigeration Products (HRP) brands are built — backed by a dedicated team to serve every customer need, delivering at the best lead times in the industry.

Dependable. Versatile. Courteous.

Finally, one simple source for all your replacement needs from a name you can trust.

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No. of Fans	Air Defrost	Electric Defrost	Hot Gas Defrost
1	050-075	050-075	—
2	100-155	100-155	100-155
3	180	180	180
4	210-270	210-270	210-270
5	340	340	340

## Electrical Components /Miscellaneous

Part #	Description	No. Fans
22512601	Terminal Strip	1 - 5
5521R	Defrost Termination	1 - 5
2891040	Room Thermostat	1 - 5
5708L*	Heater Safety	1 - 5
4550G	Filters	1 - 5

**NOTE:** \* Not Required on WKE models

## Motor/Fan Blade/Fan Guards

Part #	Description	No. Fans
5036NS	Motor 115/1/60/50 PSC	1 - 5
5036PS	Motor 208-230/1/60/50 PSC	1 - 5
25309701	Motor 460/1/60/50 PSC Totally Enclosed	1 - 5
25318001	Motor 115/1/60 EC Totally Enclosed	1 - 5
25317901	Motor 208-230/1/60/50 EC Totally Enclosed	1 - 5
5110E	Fan Blade	1 - 5
5055F	Fan Guard - Wire	1 - 5
41449101	Motor Mount - EC Motors	1 - 5
41417501	Motor Mount - 460v PSC	1 - 5

## Cabinet Components

Part #	Description	No. Fans
C26769A2	Drain Pan-Stucco	1
C26771A2	Drain Pan-Stucco	2
C26361A2	Drain Pan-Stucco	3
C26362A2	Drain Pan-Stucco	4
D20817A2	Drain Pan-Stucco	5

## Electric Defrost

Part #	Description	No. Fans
4401S	Coil Heater	1
4402S	Coil Heater	1
4544B	Coil Heater	2
4544B	Coil Heater	3
4545B	Coil Heater	4
4546B	Coil Heater	5

# PHYSICAL DATA

## CWA Air Defrost

Model	No. of Fans	Connections (in.)		Approx. Net Wt.	
		Liquid OD	Suction OD	lbs.	kg
CWA050	1	1/2	7/8	70	32
CWA075	1	1/2	7/8	103	47
CWA100	2	1/2	7/8	106	48
CWA130	2	1-1/8	1-1/8	145	66
CWA155	2	1-1/8	1-1/8	149	68
CWA180	3	1-1/8	1-1/8	160	73
CWA210	4	1-1/8	1-1/8	193	88
CWA270	4	1-3/8	1-3/8	200	91
CWA340	5	1-3/8	1-3/8	242	110

## CWE Electric Defrost

Model	No. of Fans	Connections (in.)		Approx. Net Wt.	
		Liquid OD	Suction OD	lbs.	kg
CWE050	1	1/2	7/8	75	34
CWE075	1	1/2	7/8	108	49
CWE100	2	1/2	7/8	111	50
CWE130	2	1-1/8	1-1/8	150	68
CWE155	2	1-1/8	1-1/8	154	70
CWE180	3	1-1/8	1-1/8	157	71
CWE210	4	1-1/8	1-1/8	203	92
CWE270	4	1-3/8	1-3/8	208	94
CWE340	5	1-3/8	1-3/8	250	113

## CWG Hot Gas Defrost

Model	No. of Fans	Connections (in.)		Approx. Net Wt.	
		Liquid OD	Suction OD	lbs.	kg
CWG100	2	1/2	7/8	131	59
CWG130	2	1-1/8	1-1/8	170	77
CWG155	2	1-1/8	1-1/8	174	79
CWG180	3	1-1/8	1-1/8	185	84
CWG210	4	1-1/8	1-1/8	223	101
CWG270	4	1-3/8	1-3/8	228	103
CWG340	5	1-3/8	1-3/8	270	122

## Standard Nozzle Selection

### Model CWA Air Defrost

Model	No. of Fans	Distributor Type		No. of Circuits	R404A, R507A Nozzle	R407A, R407F, R407C Nozzle	R448A R449A Nozzle	R22 Nozzle*
		OD	Length					
CWA050	1	3/16	18	3	L-1/3	L-1/3	L-1/2	L-1/4
CWA075	1	3/16	18	4	L-1/2	L-1/2	L-3/4	L-1/3
CWA100	2	3/16	18	6	L-3/4	L-3/4	L-1	L-1/2
CWA130	2	3/16	24	12	E-1	E-1	E-1-1/2	E-3/4
CWA155	2	3/16	24	10	E-1	E-1	E-1-1/2	E-3/4
CWA180	3	3/16	24	12	E-1-1/2	E-1-1/2	E-2	E-1
CWA210	4	3/16	24	12	E-1-1/2	E-1-1/2	E-2	E-1
CWA270	4	3/16	24	20	C-2	C-2	C-2-1/2	C-1-1/2
CWA340	5	3/16	24	20	C-2-1/2	C-2-1/2	C-4	C-2

### Model CWE Electric Defrost

Model	No. of Fans	Distributor Type		No. of Circuits	R404A, R507A Nozzle	R407A, R407F, R407C Nozzle	R448A R449A Nozzle	R22 Nozzle*
		OD	Length					
CWE050	1	3/16	18	3	L-1/3	L-1/3	L-1/2	L-1/4
CWE075	1	3/16	18	4	L-1/2	L-1/2	L-3/4	L-1/3
CWE100	2	3/16	18	6	L-3/4	L-3/4	L-1	L-1/2
CWE130	2	3/16	24	12	E-1	E-1	E-1-1/2	E-3/4
CWE155	2	3/16	24	10	E-1	E-1	E-1-1/2	E-3/4
CWE180	3	3/16	24	12	E-1-1/2	E-1-1/2	E-2	E-1
CWE210	4	3/16	24	12	E-1-1/2	E-1-1/2	E-2	E-1
CWE270	4	3/16	24	20	C-2	C-2	C-2-1/2	C-1-1/2
CWE340	5	3/16	24	20	C-2-1/2	C-2-1/2	C-4	C-2

### Model CWG Hot Gas Defrost

Model	No. of Fans	Distributor Type		No. of Circuits	R404A, R507A Nozzle	R407A, R407F, R407C Nozzle	R448A R449A Nozzle	R22 Nozzle*
		OD	Length					
CWG100	2	3/16	18	6	L-3/4	L-3/4	L-1	L-1/2
CWG130	2	3/16	24	12	E-1	E-1	E-1-1/2	E-3/4
CWG155	2	3/16	24	10	E-1	E-1	E-1-1/2	E-3/4
CWG180	3	3/16	24	12	E-1-1/2	E-1-1/2	E-2	E-1
CWG210	4	3/16	24	12	E-1-1/2	E-1-1/2	E-2	E-1
CWG270	4	3/16	24	20	C-2	C-2	C-2-1/2	C-1-1/2
CWG340	5	3/16	24	20	C-2-1/2	C-2-1/2	C-4	C-2

**NOTE:** Nozzles sized for 90-100°F liquid temperature at expansion valve. Contact Application Engineering for guidance if

- Liquid temperature is not 90-100°F
- Evaporator TD is not 10°-15°F (room temperature – saturated suction temperature)
- Electric defrost and hot gas models with a saturated suction temperature of 10°F or higher

**Caution:** Refrigeration system will not perform properly without correct nozzle!

\*R-22 Nozzles for informational purposes only. Not included with stocking evaporators



2175 West Park Place Blvd. · Stone Mountain, GA 30087  
Phone: 800.537.7775 · Fax: 770.465.5900  
[heatcrafterpd.com](http://heatcrafterpd.com)



Since product improvement is a continuing effort, we reserve the right to make changes in specifications without notice.

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