

DIGITAL TWINSCROLL

12HP AND 16HP UNITS



DIGITAL TWIN SCROLL FEATURES

- ▶ Twin Copeland scroll compressors, 1 standard and 1 digital
- ▶ Two condenser fans
- ▶ Fan speed controller
- ▶ Electrical control panel with mains isolator
- ▶ Phase protection module
- ▶ Carel electronic controller with LCD display
- ▶ Mechanical back up system
- ▶ Compressor HP switches
- ▶ External status lights
- ▶ Oil separator/reservoir
- ▶ Electronic oil control on both compressors
- ▶ Internal ball valves and external service valves
- ▶ Liquid line drier and sight glass
- ▶ Pressure relief valve on liquid receiver
- ▶ Hinged door access
- ▶ Can operate on refrigerants R404A*, R407A, R407F, R448A and R449A

*Units can operate in existing R404A systems

Part Number	Unit Model	Refrigerant	SEPR	Cooling Capacity (Watts) @ Te							20°C RGT Cooling Capacity (Watts)*	SPL @ 10m dB(A)	Unit Connections		Dry Weight (Kgs)	Dimensions (mm) (W x D x H)
				-20°C	-15°C	-10°C	-5°C	0°C	5°C	10°C			Liquid	Suction		
NO4120128	JEHSDT-1200-B5-M-3	R407A	2.70	-	14300	17480	21200	25400	30200	-	-	42	3/4	1 3/8	315	1387 x 851 x 1697
		R407F	2.79	-	15760	19440	23500	27900	32800	-	19860					
		R448A	2.71	-	15480	18800	22600	26900	31900	37800	19440					
		R449A	2.71	-	15480	18800	22600	26900	31900	37800	19440					
NO4120134	JEHSDT-1600-B6-M-3	R407A	2.66	-	19480	23800	28300	33600	-	-	-	44	3/4	1 3/8	380	1735 x 854 x 1727
		R407F	2.70	-	19650	24250	28950	34300	40300	-	-					
		R448A	2.72	-	19570	23700	28050	33200	39250	46100	24550					
		R449A	2.72	-	19570	23700	28050	33200	39250	46100	24550					

Rating condition: Suction gas superheat 10K / subcooling 0K / 32°C ambient
Capacity data presented in accordance with BS EN 13215:2016

Sound Pressure Level (SPL) measured in an anechoic room (-10/+32°C) MT conditions. Alternative conditions may produce different results
*Alternative cooling capacity condition: -10°Cte/+32°Cta MT with 0K SC

Refrigerants	GWP	TCO ² eq (Tonnes CO ² equivalent)
R407A	2107	GWP x total system refrigerant charge (Kgs) 1000
R407F	1825	
R448A	1387	
R449A	1397	

NOTE

J & E Hall commercial condensing units' functioning relies on fluorinated greenhouse gases. This table illustrates refrigerants used, GWP values and Tonnes CO equivalent calculation.

Digital Scroll Commercial Condensing Units

PRODUCT RANGE 2020



Variable load?
Digital units are the answer...



Digital Scroll Commercial Condensing Units

J & E Hall provide a comprehensive range of single and twin digital scroll commercial condensing units with capacities up to 46kW.

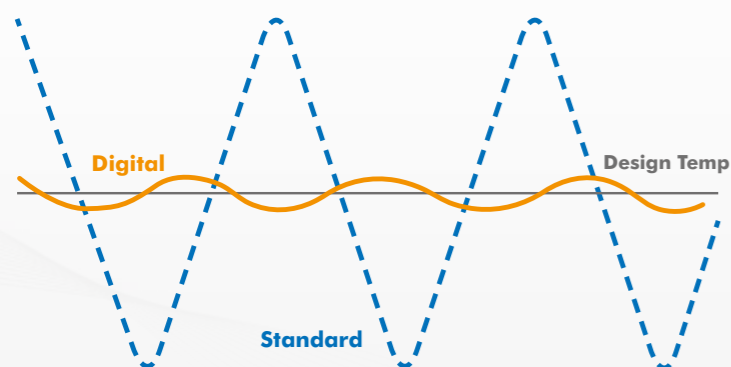
Digital scroll compressor capacity control matches varying display case loads and provides an energy efficient solution for commercial refrigeration applications.

The units are suitable for multi cabinet systems and multiple evaporators for coldrooms.

Our single scroll digital range is an ideal solution for convenience stores, small supermarkets and petrol forecourts.

Twin scroll condensing units are suitable for larger convenience stores and supermarkets, and are a packaged alternative to multi-compressor racks.

Temperature Control Comparison Digital vs. Standard Technology



BENEFITS

- ▶ **3 year manufacturer's parts warranty**
Total peace of mind, maximising profit and minimising risk
- ▶ **Quality components**
Ensures reliability and long life to save money against repairs and replacement
- ▶ **Copeland scroll compressors**
Saves energy by accurately matching varying cooling demand 18-100%
- ▶ **Hinged doors**
Provides easy access for service and maintenance
- ▶ **Ease of installation**
Plug and play concept complete with external service valves for ease of piping
- ▶ **Packaged**
All necessary components fitted and control panel pre-wired
- ▶ **Compact**
Can fit in areas where space is limited
- ▶ **Multi refrigerant options**
R407A, R407F, R448A and R449A
- ▶ **Back up system**
In the event of a controller failure the manual back up is available to eliminate downtime
- ▶ **Alarm**
The VFC relay can be used to initiate a remote alarm reducing potential for product loss

APPLICATIONS

Ideal for multiple cabinet installations;

- ▶ Convenience stores
- ▶ Larger convenience stores
- ▶ Supermarkets
- ▶ Petrol forecourts

DIGITAL SINGLE SCROLL

4HP, 6HP AND 8HP UNITS

DIGITAL SINGLE SCROLL FEATURES

- ▶ Single ZBD Copeland digital compressors
- ▶ Variable capacity control
- ▶ Fan speed controller
- ▶ Cu/Al condenser
- ▶ Electrical control panel with mains isolator
- ▶ Carel electronic controller with LCD display
- ▶ Mechanical back up system



- ▶ Oil separator
- ▶ External service valves
- ▶ Liquid line drier and sight glass
- ▶ Can operate on refrigerants R404A*, R407A, R407F, R448A & R449A
*Units can operate in existing R404A systems
- ▶ Volt free alarm relay
- ▶ Bacnet and Modbus protocol feature (additional hardware required)

Part Number	Unit Model	Refrigerant	SEPR	Cooling Capacity (Watts) @ Te							20°C RGT Cooling Capacity (Watts)*	SPL @ 10m dB(A)	Unit Connections		Dry Weight (Kgs)	Dimensions (mm) (W x D x H)
				-20°C	-15°C	-10°C	-5°C	0°C	5°C	10°C			Liquid	Suction		
N04120120	JEHSD-0400-B3-M-3	R407A	3.26	4210	5270	6440	7790	9380	11250	-	6620	39	1/2	7/8	128	1353 x 575 x 872
		R407F	3.23	-	5660	6910	8350	10050	12150	-	7030					
		R448A	3.15	4320	5280	6380	7610	9010	10600	12450	6590					
		R449A	3.15	4320	5280	6380	7610	9010	10600	12450	6590					
N04120121	JEHSD-0600-B3-M-3	R407A	3.24	6030	7470	9150	11050	13200	15550	-	9450	40	1/2	7/8	134	1353 x 575 x 872
		R407F	3.08	6410	7990	9730	11650	13700	15950	-	9950					
		R448A	2.93	6220	7700	9320	11050	13000	15100	17450	9640					
		R449A	2.93	6220	7700	9320	11050	13000	15100	17450	9640					
N04120122	JEHSD-0800-B4-M-3	R407A	2.75	8120	10000	12200	14750	17650	20900	-	12650	44	3/4	1 1/8	213	1348 x 612 x 1727
		R407F	2.84	8300	10250	12450	15000	17850	21000	-	12750					
		R448A	2.75	8370	10200	12300	14650	17300	20400	23900	12700					
		R449A	2.75	8370	10200	12300	14650	17300	20400	23900	12700					

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