

# J & E HALL COMMERCIAL CONDENSING UNITS



## SERIES 3 DIGITAL SCROLL

J & E Hall has extended its range of commercial condensing units by adding the series 3 digital scroll unit. With a capacity up to 16kW the series 3 is an ideal solution for convenience stores, supermarkets and petrol forecourts. The digital scroll compressor capacity control matches varying display case loads and provides an energy efficient solution for commercial refrigeration applications. The series 3 digital scroll is also suitable for multi cabinet systems.



### Low noise

The series 3 unit houses a low speed fan for quiet operation. The unit is acoustically lined to further reduce noise and blends into the background noise of the local environment.

### Compliant

Fans are ErP Lot 11 2013 compliant ensuring the units comply with the latest efficiency requirements.

### Energy efficient

The series 3 condensing unit houses the highly efficient Copeland Digital scroll compressor.

The unit provides greater energy efficiency and lower running costs by precisely matching refrigeration load.

This is achieved by advanced electronic control of the digital compressor which can provide variable capacity of between 10% and 100%.

### Multiple display cabinets

The series 3 digital scroll condensing unit can be used with multiple cabinets and evaporators. This can help reduce the number of outdoor units required for an installation.

### Quality components

Units are manufactured using high quality components for longevity and reliability.

The series 3 condensing unit is tested under strict factory conditions and its heavy duty powder coated casing makes it weatherproof and resistant to corrosion. The IP54 rated control panel provides further protection.

### Ease of installation

The units come with all necessary components fitted. The pre-wired control panel incorporates the advanced electronic controller and comes complete with a mains electrical isolator. External shut off valves enable fast and efficient pipe connection.

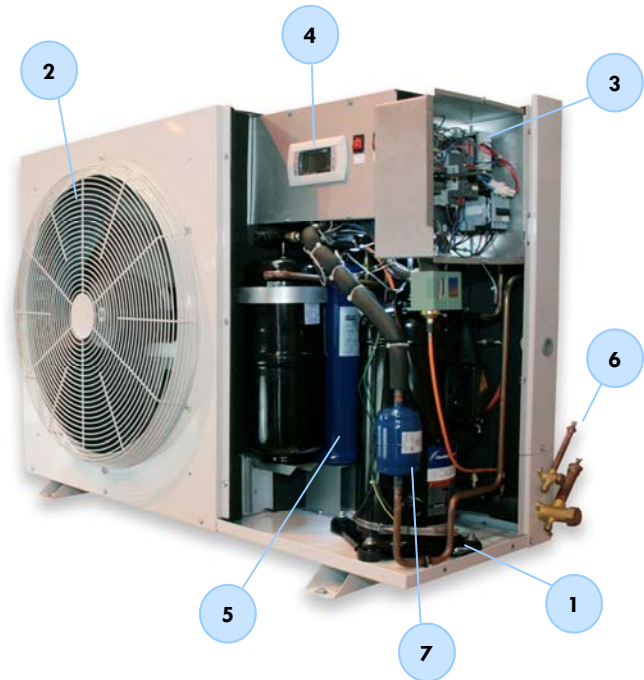


## Applications

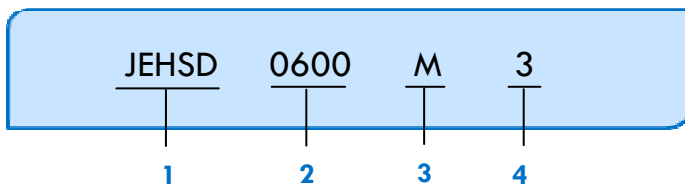
Convenience stores  
Supermarkets  
Petrol stations

## Digital scroll features

- ➔ Single 6hp Copeland digital compressor (1)
- ➔ Single condenser fan (2)
- ➔ Fan speed controller
- ➔ Cu/Al condenser
- ➔ Electrical control panel with mains isolator (3)
- ➔ Carel electronic controller with LCD display (4)
- ➔ Oil separator (5)
- ➔ External service valves (6)
- ➔ Liquid line drier and sight glass (7)
- ➔ Mechanical bypass circuit



## Type designation for series 3 digital scroll



1	J & E Hall digital scroll
2	Nominal capacity in horsepower 0600 = 6.00hp
3	Medium temperature
4	3 phase

## Digital scroll technical data

Model	Ambient °C	Cooling Capacity												Weight kgs	Dimensions (mm)			Noise level (dBA)
		-20		-15		-10		-5		0		5			Width	Depth	Height	
		Duty kW	Input kW	Duty kW	Input kW	Duty kW	Input kW	Duty kW	Input kW	Duty kW	Input kW	Duty kW	Input kW					
JEHSD 0600 M 3	27	7.1	3.9	8.6	4.1	10.4	4.4	12.3	4.6	14.4	4.9	16.9	5.2	139	1347	556	884	44
	32	6.6	4.1	8.0	4.4	9.7	4.7	11.6	4.9	13.6	5.2	15.9	5.5					
	38	5.0	4.5	7.3	5.0	8.8	5.0	10.6	5.9	12.3	5.6	14.4	5.9					



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# J & E HALL COMMERCIAL CONDENSING UNITS



## SERIES 5 TWIN SCROLL

The series 5 twin scroll commercial condensing unit is an extension to the range of J & E Hall commercial products. With a capacity up to 31kW the series 5 is an ideal solution for larger convenience store applications and is a packaged alternative to multi compressor racks. Digital compressor capacity control matches varying display case loads and provides the perfect energy efficient commercial refrigeration solution.

### Energy efficient

The series 5 unit houses highly efficient Copeland scroll compressors. One compressor is digital and one is fixed speed.

The unit provides greater energy efficiency and lower running costs by precisely matching refrigeration load. This is achieved by advanced electronic control of the digital

compressor which can provide variable capacity of between 10% and 100%.

The highly efficient microchannel condenser coil helps reduce refrigerant charge, is lighter than conventional coils and is also resistant to corrosion.

### Low noise

The series 5 unit houses low speed fans for quiet operation. The unit is acoustically lined to further reduce noise and blends into the background noise of the local environment.

### Quality components

Units are manufactured using high quality components for longevity and reliability.

The twin scroll condensing unit is tested under strict factory conditions and its

heavy duty powder coated casing makes it weatherproof and resistant to corrosion.

### Ease of installation

Access to major components via hinged doors enables ease of installation and service. The pre-wired control panel with mains isolator, compressor ball valves, externally mounted service valves and status lights are major benefits to the installing contractor.

### Multiple display cabinets

The twin scroll unit can be used with multiple cabinets and evaporators for larger convenience store applications.

### Compliant

Fans are ErP Lot 11 2015 compliant making the units even more energy efficient.





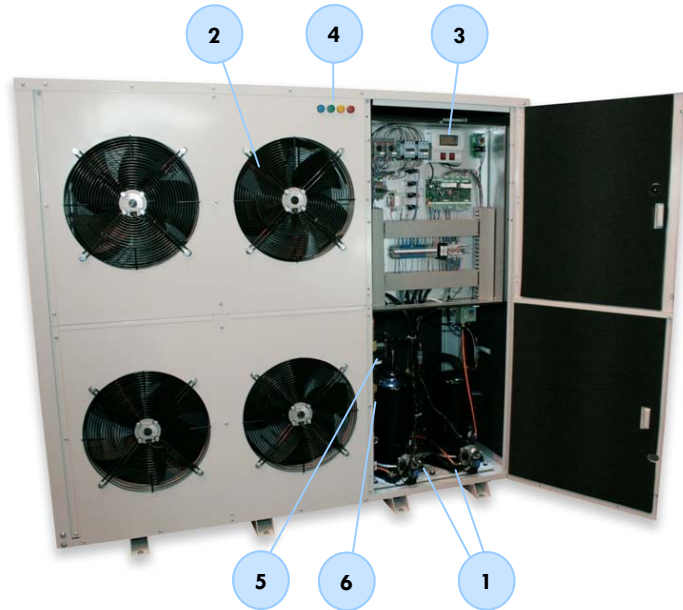


## Applications

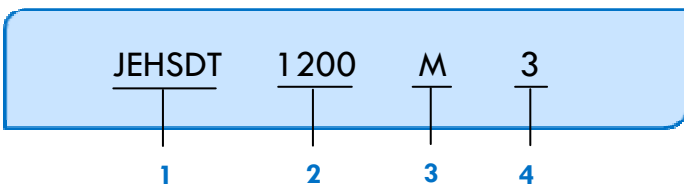
- Larger convenience stores
- Supermarkets
- Petrol forecourts

## Twin scroll features

- Twin Copeland scroll compressors, 1 fixed speed and 1 digital (1)
- Four condenser fans (2)
- Fan speed controller
- Microchannel condenser
- Electrical control panel with mains isolator (3)
- Carel electronic controller with LCD display (3)
- Mechanical back up system (3)
- Compressor HP switches
- External status lights (4)
- Oil separator (5)
- Internal ball valves and external service valves
- Liquid line drier and sight glass (6)
- Pressure relief valve on liquid receiver
- Hinged door access



## Type designation for series 5 twin scroll



1	J & E Hall scroll digital twin
2	Nominal capacity in horsepower 1200 = 12.00hp
3	Medium temperature
4	3 Phase

## Twin scroll technical data

Model	Ambient °C	Cooling Capacity												Weight kgs	Dimensions (mm)			Noise level (dBA)
		-20		-15		-10		-5		0		5			Width	Depth	Height	
		Duty kW	Input kW	Duty kW	Input kW	Duty kW	Input kW	Duty kW	Input kW	Duty kW	Input kW	Duty kW	Input kW					
JEHSDT 1200 M 3	27	13.4	8.5	16.4	8.7	19.8	9.0	23.6	9.2	27.6	9.6	32.7	9.7	382	2083	722	1762	44
	32	12.4	9.3	15.2	9.5	18.4	9.7	22.0	9.9	26.1	10.2	30.7	10.5					
	38	11.2	10.3	13.7	10.6	16.6	10.8	19.9	11.1	23.6	11.3	27.8	11.6					



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