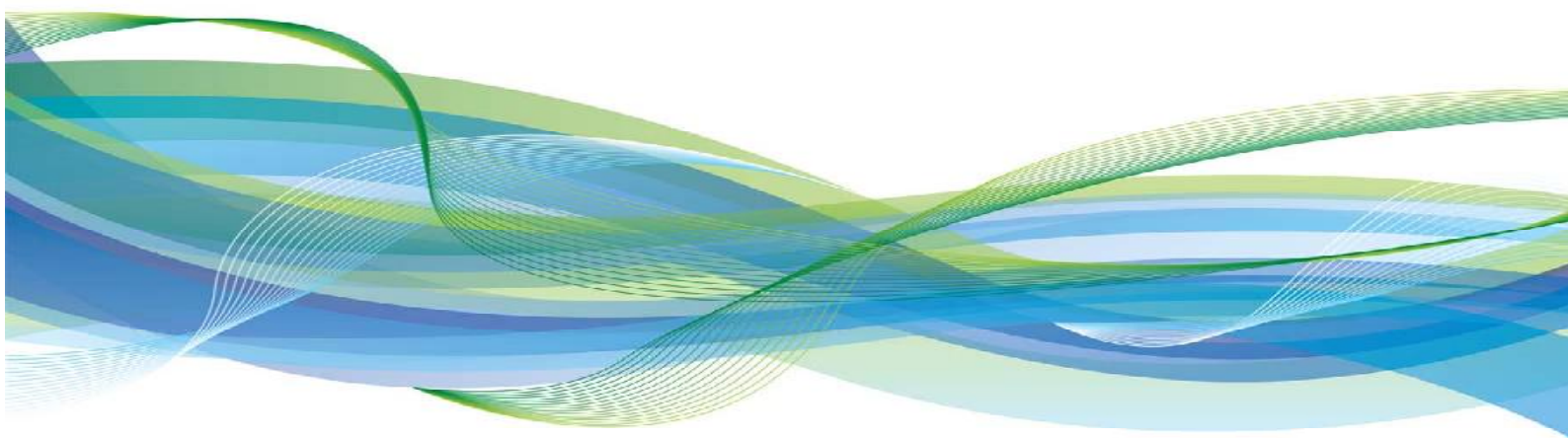


FUSION commercial condensing units
reciprocating and scroll



Fusion Scroll units qualify* for ECA and are
100% TAX DEDUCTABLE
Visit www.jehall.com for more information
*Applies to end users purchasing medium temperature scroll units



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shopfitting | refrigeration | air conditioning



Commercial condensing units

J & E Hall Fusion and Fusion Scroll commercial refrigeration units create the perfect answer for those demanding a compact yet efficient unit. The units are the ideal solution for commercial refrigeration sectors where noise, size and reliability are paramount.

Housed in a cabinet made of electro-galvanised mild steel with an anti-corrosion treatment and coated in baked polyester powder paint, units are able to withstand the most stringent weather testing. The integral IP54 rated control panel provides further protection to all essential electrical components.

All units are acoustically lined. The Fusion Scroll units house the extremely efficient Copeland scroll compressor and the standard Fusion range house a highly reliable reciprocating compressor fitted with compressor jacket* to further reduce noise.

*excludes small units

All condensing units come complete with all components fitted during manufacture to save the installer time and money.

Fusion and Fusion Scroll condensing units are available for both medium and low temperature applications.



FUSION

On all models

- R404A refrigerant
- Robust weather resistant housing
- Highly reliable hermetic compressor
- Liquid receiver with fusible plug
- Adjustable HP/LP pressure safety switch
- Liquid line with sight glass and filter drier factory fitted
- IP54 rated control panel with isolator
- Noise data tested to ISO 3774-2 standard
- Oil separator and check valve for low temperature models
- CE marked
- Anti corrosion blue fins for improved condenser efficiency
- Polyurethane foam insulation for improved noise reduction
- Externally mounted service valves for easy isolation and an extended tail for easy installation
- Hexagon head screws and stainless steel washers for easy removal of access panels

Additional features on medium, large and twin fan models:

- Compressor contactor
- Fan speed controller
- Crankcase heater
- Fitted compressor jacket for improved noise reduction
- Isolator with integrated MCB for improved electrical layout
- Medium temperature units can also operate on R134a if required

FUSION SCROLL

On all models

- R404A refrigerant (Medium temperature units can also operate on R134a if required)
- Robust weather resistant housing
- Highly reliable Copeland scroll compressor
- Liquid receiver with fusible plug
- Adjustable HP/LP pressure safety switch
- Liquid line with sight glass and filter drier factory fitted
- IP54 rated control panel with isolator
- Noise data tested to ISO 3774-2 standard
- Oil separator and check valve for low temperature models
- CE marked
- Anti corrosion blue fins for improved condenser efficiency
- Polyurethane foam insulation for improved noise reduction
- Externally mounted service valves for easy isolation and an extended tail for easy installation
- Hexagon head screws and stainless steel washers for easy removal of access panels
- Isolator with integrated MCB for improved electrical layout
- Fan speed controller
- Crankcase heater



FUSION



FUSION SCROLL

FUSION commercial condensing units

Series	Model	Casing size	Compressor			Coil Vol. Litres	Airflow M3/hr	Fan Motors		Connections		Receiver vol. litres	Dry weight Kgs	Noise Db(A)*	Dimensions (mm)		
			Type	ØMCC(A)	LRC (A)			No.	FLC (A)	Suction	Liquid				Width	Depth	Height
1	JEH2-0050-M-1	small	SC10 MLX	4.7	18.4	1.9	1910	1	0.6	3/8	1/4	1.2	46	29	887	430	489
	JEH2-0088-M-1	small	SC18 MLX	6.6	23.4	1.9	1910	1	0.6	3/8	1/4	1.2	46	29	887	430	489
2	JEH2-0150-M-1	medium	MTZ18-5VM	10.0	40.0	1.5	3040	1	0.6	1/2	3/8	4.6	82	37	1109	478	649
	JEH2-0150-M-3	medium	MTZ18-4VM	5.0	20.0	1.5	3040	1	0.6	1/2	3/8	4.6	82	37	1109	478	649
	JEH2-0225-M-1	medium	MTZ28-5VM	20.0	51.0	3.1	2620	1	0.6	1/2	3/8	4.6	89	36	1109	478	649
	JEH2-0225-M-3	medium	MTZ28-4VM	7.5	23.0	3.1	2620	1	0.6	1/2	3/8	4.6	89	36	1109	478	649
	JEH2-0300-M-1	medium	MTZ36-5VM	22.0	60.0	3.1	2620	1	0.6	5/8	3/8	4.6	89	37	1109	478	649
	JEH2-0300-M-3	medium	MTZ36-4VM	9.0	30.0	3.1	2620	1	0.6	5/8	3/8	4.6	89	37	1109	478	649
3	JEH2-0400-M-3	large	MTZ50-4VM	12.0	42.0	4.7	6050	1	1.1	7/8	1/2	7.6	120	37	1335	529	884
	JEH2-0500-M-3	large	MTZ64-4VM	15.0	67.0	4.7	6050	1	1.1	7/8	1/2	7.6	120	40	1335	529	884
	JEH2-0600-M-3	large	MTZ72-4VM	15.5	80.0	7.6	5180	1	1.1	7/8	1/2	7.6	126	40	1335	529	884
	JEH2-0675-M-3	large	MTZ81-4VM	19.0	80.0	7.6	5180	1	1.1	1 1/8	1/2	7.6	126	42	1335	529	884
4	JEH2-0825-M-3	twin fan	MTZ100-4VM	22.0	90.0	6.9	6770	2	1.6	1 1/8	1/2	14.0	205	42	1258	590	1436
	JEH2-1000-M-3	twin fan	MTZ125-4VM	27.0	105.0	6.9	6770	2	1.6	1 1/8	1/2	14.0	205	42	1258	590	1436

① Maximum Continuous Current

* Sound pressure levels @10m free field at (-10/+32°C) MT & (-25/+32°C) LT conditions. Alternative conditions may produce different results.

Medium Temperature Performance Data

R404A

Model	HP	TE TA	Cooling Capacity (Watts)							
			-30	-25	-20	-15	-10	-5	0	5
JEH2-0050 M-1	0.5	27	-	-	694	851	1037	1254	1500	1777
		32	-	-	532	686	871	1085	1330	1604
		38	-	-	391	543	725	937	1179	1451
JEH2-0088 M-1	0.88	27	-	-	1057	1320	1619	1952	2321	2722
		32	-	-	990	1214	1478	1782	2126	2510
		38	-	-	868	1065	1302	1579	1896	2252
JEH2-0150 M-1 & 3	1.5	27	649	961	1338	1780	2287	2859	3496	4198
		32	558	837	1180	1589	2062	2601	3204	3878
		38	431	679	987	1355	1783	2271	2819	3427
JEH2-0225 M-1 & 3	2.25	27	1172	1722	2341	3031	3790	4620	5519	6489
		32	977	1491	2074	2728	3451	4245	5108	6042
		38	819	1293	1826	2420	3073	3787	4560	5394
JEH2-0300 M-1 & 3	3	27	1681	2306	3036	3871	4811	5856	7006	8261
		32	1524	2120	2815	3611	4506	5502	6597	7793
		38	1281	1869	2546	3314	4171	5119	6156	7284
JEH2-0400 M-3	4	27	2313	3247	4366	5670	7159	8833	10692	12736
		32	2061	2900	3924	5133	6527	8106	9870	11819
		38	1719	2482	3409	4502	5759	7182	8769	10522
JEH2-0500 M-3	5	27	3220	4286	5556	7032	8712	10598	12688	14984
		32	2885	3862	5043	6430	8021	9818	11819	14026
		38	2393	3347	4466	5750	7199	8813	10592	12536
JEH2-0600 M-3	6	27	3326	4604	6076	7744	9606	11664	13916	16364
		32	2979	4181	5568	7140	8897	10839	12966	15278
		38	2471	3635	4943	6397	7995	9739	11627	13661
JEH2-0675 M-3	6.75	27	3656	5119	6756	8569	10556	12719	15056	17569
		32	3172	4593	6164	7885	9756	11777	13948	16269
		38	2694	4060	5546	7152	8878	10724	12690	14776
JEH2-0825 M-3	8.25	27	3832	5545	7467	9600	11942	14495	17257	20230
		32	3322	4982	6816	8826	11010	13370	15904	18614
		38	2809	4349	6043	7893	9897	12057	14371	16841
JEH2-1000 M-3	10	27	5786	7709	9811	12094	14556	17199	20021	23024
		32	4952	6931	9020	11219	13528	15947	18476	21115
		38	4351	6155	8073	10107	12255	14519	16897	-

TE: Evaporating Temperature (°C) TA: Ambient Temperature (°C)

Rating condition: Suction gas superheat 10K, Sub cooling OK

All duties are +/-10%

Low Temperature Performance Data

R404A

Model	HP	TE TA	Cooling Capacity (Watts)					
			-45	-40	-35	-30	-25	-20
JEH2-0075 L-1	0.75	27	245	365	500	650	815	995
		32	175	289	418	562	721	895
		38	104	209	329	464	614	779
JEH2-0175 L-1&3	1.75	27	455	738	1051	1394	1767	2170
		32	363	643	947	1277	1631	2011
		38	-	492	800	1132	1490	1872
JEH2-0225 L-1&3	2.25	27	829	1253	1718	2222	2767	3351
		32	762	1139	1567	2044	2572	3149
		38	-	1017	1410	1868	2391	2979
JEH2-0350 L-3	3.5	27	996	1506	2141	2901	3786	4796
		32	790	1252	1845	2567	3420	4402
		38	-	1080	1603	2272	3085	4044
JEH2-0400 L-3	4	27	1629	2354	3200	4165	5251	6456
		32	1347	2020	2824	3757	4821	6014
		38	-	1749	2495	3396	4452	5663
JEH2-0725 L-3	7.25	27	2363	3485	4717	6059	7511	9073
		32	2026	3070	4245	5549	6984	8548
		38	-	2563	3716	5014	6457	8045
JEH2-0825 L-3	8.25	27	3293	4813	6469	8259	10185	12245
		32	2890	4276	5818	7514	9366	11372
		38	-	3713	5111	6694	8462	10415

TE: Evaporating Temperature (°C) TA: Ambient Temperature (°C)

Rating condition: Suction gas superheat 10K, Sub cooling OK

All duties are +/-10%



FUSION SCROLL commercial condensing units

Series	Model	Casing size	Compressor			Coil Vol.	Airflow	Fan Motors		Connections		Receiver vol. litres	Dry weight Kgs	Noise Db(A)*	Dimensions (mm)		
			Type	ØMCC(A)	LRC (A)			No.	FLC (A)	Suction	Liquid				Width	Depth	Height
2	JEHS-0200-M1	medium	ZB15KQE-PFJ	18.5	58.0	3.1	2620	1	0.6	3/4	3/8	4.6	88	30	1109	478	649
	JEHS-0200-M3	medium	ZB15KQE-TFD	7.0	26.0	3.1	2620	1	0.6	3/4	3/8	4.6	88	30	1109	478	649
	JEHS-0250-M1	medium	ZB19KQE-PFJ	20.5	61.0	3.1	2620	1	0.6	3/4	3/8	4.6	90	31	1109	478	649
	JEHS-0250-M3	medium	ZB19KQE-TFD	7.0	32.0	3.1	2620	1	0.6	3/4	3/8	4.6	90	31	1109	478	649
	JEHS-0300-M1	medium	ZB21KQE-PFJ	21.5	82.0	3.1	2620	1	0.6	3/4	3/8	4.6	92	34	1109	478	649
	JEHS-0300-M3	medium	ZB21KQE-TFD	10.3	40.0	3.1	2620	1	0.6	3/4	3/8	4.6	92	34	1109	478	649
3	JEHS-0350-M1	large	ZB26KQE-PFJ	26.5	97.0	4.7	6050	1	1.1	3/4	1/2	7.6	114	35	1335	529	884
	JEHS-0350-M3	large	ZB26KQE-TFD	9.0	46.0	4.7	6050	1	1.1	3/4	1/2	7.6	114	35	1335	529	884
	JEHS-0400-M1	large	ZB29KQE-PFJ	28.0	114.0	4.7	6050	1	1.1	7/8	1/2	7.6	121	34	1335	529	884
	JEHS-0400-M3	large	ZB29KQE-TFD	11.0	50.0	4.7	6050	1	1.1	7/8	1/2	7.6	121	34	1335	529	884
	JEHS-0500-M3	large	ZB38KQE-TFD	14.0	65.5	4.7	6050	1	1.1	7/8	1/2	7.6	126	35	1335	529	884
	JEHS-0600-M3	large	ZB45KQE-TFD	14.2	74.0	7.6	5180	1	1.1	7/8	1/2	7.6	128	40	1335	529	884
2	JEHS-0200-L3	medium	ZF06K4E-TFD	6.0	26.0	3.1	2620	1	0.6	3/4	3/8	4.6	94	27	1109	478	649
	JEHS-0300-L3	medium	ZF09K4E-TFD	7.5	40.0	3.1	2620	1	0.6	3/4	3/8	4.6	96	28	1109	478	649
	JEHS-0400-L3	large	ZF13K4E-TFD	10.0	51.5	4.7	6050	1	1.1	7/8	1/2	7.6	129	35	1335	529	884
	JEHS-0500-L3	large	ZF15K4E-TFD	12.0	64.0	4.7	6050	1	1.1	7/8	1/2	7.6	130	36	1335	529	884
	JEHS-0600-L3	large	ZF18K4E-TFD	11.5	74.0	4.7	6050	1	1.1	7/8	1/2	7.6	130	41	1335	529	884
	JEHS-0600-L3	large	ZF18K4E-TFD	11.5	74.0	4.7	6050	1	1.1	7/8	1/2	7.6	130	41	1335	529	884

① Maximum Continuous Current

* Sound pressure levels @ 10m free field at (-10/+32°C) MT & (-25/+32°C) LT conditions. Alternative conditions may produce different results.

Medium Temperature Performance Data

R404A

Model	HP	TE		COP	Cooling Capacity (Watts)					
		TA			-20	-15	-10	-5	0	5
JEHS-0200 M-1 & 3	2	27	3.1	2500	3050	3650	4350	5150	6019	
		32		2315	2820	3400	4050	4800	5617	
		38		2075	2545	3050	3700	4400	5197	
JEHS-0250 M-1 & 3	2.5	27	3.1	2750	3400	4100	4950	5850	6859	
		32		2595	3200	3900	4650	5550	6506	
		38		2395	2950	3600	4350	5250	6236	
JEHS-0300 M-1 & 3	3	27	3.0	3400	4200	5050	6100	7250	8529	
		32		3200	3950	4800	5800	6850	8040	
		38		3000	3700	4500	5400	6450	7590	
JEHS-0350 M-1 & 3	3.5	27	3.1	4250	5200	6300	7650	9100	10769	
		32		3950	4850	5900	7100	8500	10040	
		38		3550	4350	5300	6450	7700	9140	
JEHS-0400 M-1 & 3	4	27	3.4	4790	5900	7160	8610	10250	12056	
		32		4480	5500	6690	8040	9590	11298	
		38		4000	4940	6020	7260	8690	10261	
JEHS-0500 M-3	5	27	3.2	5850	7150	8650	10300	12250	14350	
		32		5400	6650	8050	9650	11450	13420	
		38		4850	5950	7200	8700	10350	12210	
JEHS-0600 M-3	6	27	3.0	6650	8100	9800	11700	13800	16130	
		32		6150	7550	9150	10900	12950	15150	
		38		5550	6800	8250	9850	11650	13620	
JEHS-0680 M-3	6.8	27	3.2	7150	8750	10500	12550	14750	17190	
		32		6700	8150	9850	11650	13800	16090	
		38		6000	7300	8850	10550	12400	14460	

COP's are based on UK rating point for medium temperature units

TE: Evaporating Temperature (°C) TA: Ambient Temperature (°C)

Rating condition: Suction gas superheat 10k, Sub cooling 0K

All duties are +/-10%

Low Temperature Performance Data

R404A

Model	HP	TE		Cooling Capacity (Watts)				
		TA		-40	-35	-30	-25	-20
JEHS-0200 L-3	2	27	3.1	1075	1350	1665	2030	2450
		32	3.1	1000	1260	1560	1910	2310
		38	3.1	915	1160	1445	1780	2170
JEHS-0300 L-3	3	27	3.1	1395	1760	2170	2630	3150
		32	3.1	1315	1645	2040	2480	3000
		38	3.1	1215	1535	1905	2335	2830
JEHS-0400 L-3	4	27	3.4	2070	2665	3350	4100	5000
		32	3.4	1940	2485	3100	3850	4700
		38	3.4	1780	2275	2860	3550	4350
JEHS-0500 L-3	5	27	3.2	2495	3200	4000	4900	5900
		32	3.2	2330	3000	3750	4600	5550
		38	3.2	2135	2745	3450	4250	5200
JEHS-0600 L-3	6	27	3.0	3050	3850	4700	5700	6850
		32	3.0	2850	3600	4400	5350	6450
		38	3.0	2620	3300	4100	5050	6100

TE: Evaporating Temperature (°C) TA: Ambient Temperature (°C)

Rating condition: Suction gas superheat 10k, Sub cooling 0K

All duties are +/-10%



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