



CLADE

ROWAN RANGE

R290 HEAT PUMP //
for HEATING AND HOT WATER

January 2024 //



ROWAN RANGE //

Discover the ultimate selection of space-saving, cost-efficient propane heat pumps, expertly designed to meet the demands of commercial environments! Each model in this line up is engineered to deliver exceptional performance without sacrificing space or breaking the budget. Perfect for businesses looking to maximize efficiency and value!

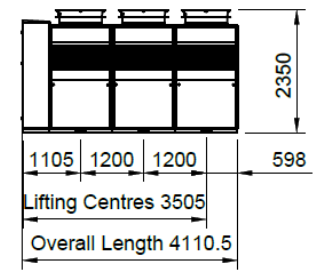
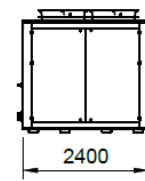
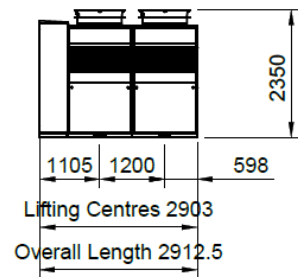
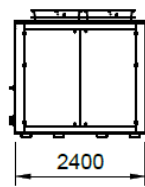
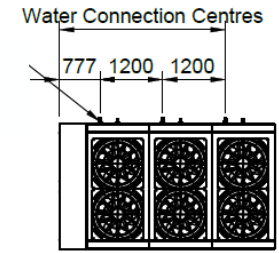
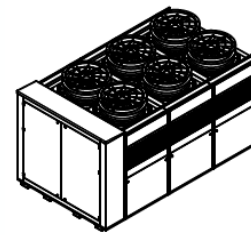
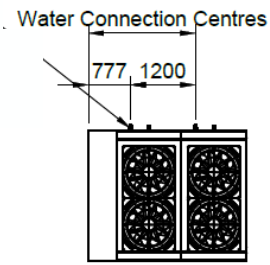
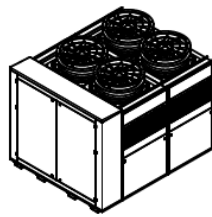
Model	-5°C capacity	+7°C capacity
Rowan SN/150	150KW	204
Rowan SN/225	225Kw	306
Rowan SN/300	300KW	408
Rowan SN/375	375kw	510

- Future proof refrigerant
- GWP = 0.02
- ODP = 0
- 1D Silencers available to lower noise levels
- External pump which enables accurate sizing for the application
- External header for easy installation available as a kit
- Up to 65°C hot water
- Light and dark grey colour options
- Coated coil option
- Can be multiplexed using Clade Multi Controller



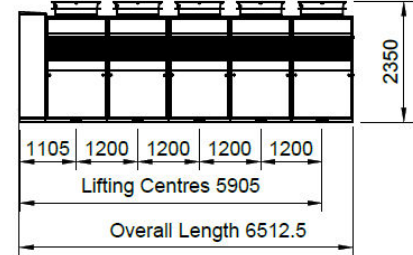
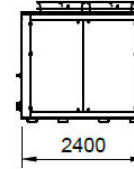
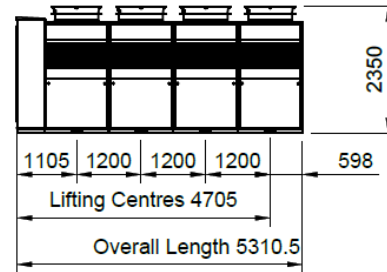
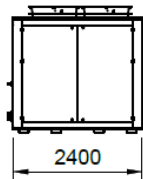
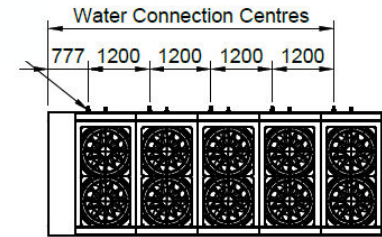
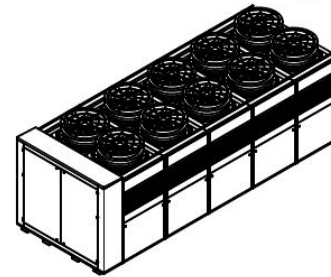
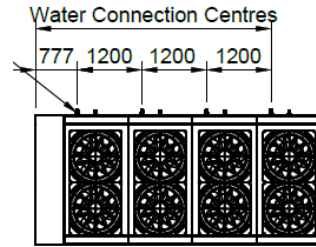
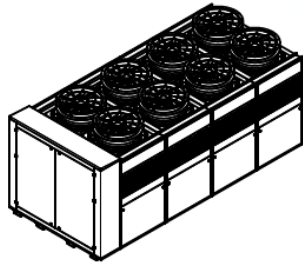


DIMENSIONAL INFORMATION 150 & 225KW //





DIMENSIONAL INFORMATION 300 & 375KW //





TECHNICAL SPECIFICATION //

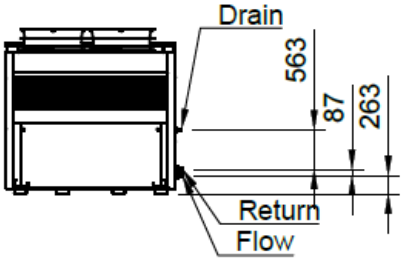
		Rowan Range
Heating &/or Cooling?		Heating
Breaker type		MCCB
Water Flow Temperature	Deg C	60
Water Return Temperature	Deg C	50
Colour		RAL7016 Anthracite
Compressor Manufacturer		Dorin
Connections waterside Pressure Rating	PN	PN6
Control Protocol		BACNET
Control Connection		CAT5e
Controller type		SIEMENS
Defrost Type		Hot Gas
Defrost design/condition		> +6c ambient Off Cycle / < +6c ambient Cool Gas
Defrost medium		Hot gas
Electrical supply		3~ 400V 50 HZ
Evaporators Type		Flat Bed
Fan regulation		0-10V
Fin Material	-	AL/MG
Regrigerant type		Propane
Regrigerant type		R290
SCOP AT DESIGN		2.9
SCOP EN14825		3.95

Noise Data

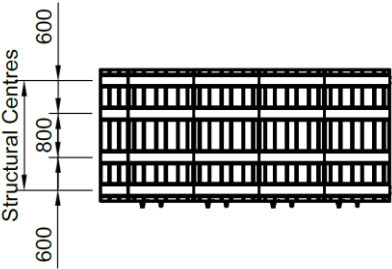
	Standard			1D silencers		
Model	Sound Power	Sound Pressure at 1m	Sound Pressure at 10m	Sound Power	Sound Pressure at 1m	Sound Pressure at 10m
Rowan SN 240/150	83.8	64.5	51.4	79.7	60.4	47.2
Rowan SN 360/225	85.6	65.3	52.9	81.5	61.2	48.8
Rowan SN 480/300	86.8	65.8	53.9	82.7	61.7	49.8
Rowan SN 600/375	87.8	66.1	54.7	83.7	62	50.6

Electrical Data

	Total System Electrical Data			
Model	Amps	kW	KVA	VAC
Rowan SN 240/150	182	93.4	125.6	400
Rowan SN 360/225	272.9	140	188.3	400
Rowan SN 480/300	363.9	186.7	251.1	400
Rowan SN 600/375	454.9	233.4	131.9	400



The Rowan range requires an external header arranged as a reverse return and a water pump which can be orientated for differing installation arrangements.





HEAT PUMP PERFORMANCE //

ROWAN 204/150																						
Model name	Output Temp (°C)	Return Temp (°C)	SCOP	SPF	-10°C External		-5°C External		0°C External		5°C External		7°C External		10°C External		15°C External		20°C External		25°C External	
					KW	COP	KW	COP	KW	COP	KW	COP	KW	COP	KW	COP	KW	COP	KW	COP	KW	COP
150	60	40	2.9	3	156	2.49	192	2.61	228	2.76	261	2.95	261	3.05	261	3.17	261	3.5	261	3.72	261	3.72
	60	50	2.8	2.9	144	2.4	177	2.5	213	2.6	252	2.8	258	2.87	261	2.95	261	3.2	261	3.55	261	3.55
	55	35	3	3.1	162	2.76	198	2.81	240	2.95	261	3.19	261	3.3	261	3.5	261	3.8	261	4.06	261	4.06
	50	35	3.2	3.3	162	2.87	198	2.95	240	3.13	261	3.39	261	3.5	261	3.74	261	4.18	261	4.42	261	4.42
	45	30	3.4	3.5	171	3.11	207	3.21	249	3.42	261	3.76	261	3.85	261	4.19	261	4.74	261	5	261	5

ROWAN 306/225																						
Model name	Output Temp (°C)	Return Temp (°C)	SCOP	SPF	-10°C External		-5°C External		0°C External		5°C External		7°C External		10°C External		15°C External		20°C External		25°C External	
					KW	COP	KW	COP	KW	COP	KW	COP	KW	COP	KW	COP	KW	COP	KW	COP	KW	COP
225	60	40	2.9	3	234	2.49	288	2.61	342	2.76	391.5	2.95	391.5	3.05	391.5	3.17	391.5	3.5	391.5	3.72	391.5	3.72
	60	50	2.8	2.9	216	2.4	265.5	2.5	319.5	2.6	378	2.8	387	2.87	391.5	2.95	391.5	3.2	391.5	3.55	391.5	3.55
	55	35	3	3.1	243	2.76	297	2.81	360	2.95	391.5	3.19	391.5	3.3	391.5	3.5	391.5	3.8	391.5	4.06	391.5	4.06
	50	35	3.2	3.3	243	2.87	297	2.95	360	3.13	391.5	3.39	391.5	3.5	391.5	3.74	391.5	4.18	391.5	4.42	391.5	4.42
	45	30	3.4	3.5	256.5	3.11	310.5	3.21	373.5	3.42	391.5	3.76	391.5	3.85	391.5	4.19	391.5	4.74	391.5	5	391.5	5

ROWAN 408/300																						
Model name	Output Temp (°C)	Return Temp (°C)	SCOP	SPF	-10°C External		-5°C External		0°C External		5°C External		7°C External		10°C External		15°C External		20°C External		25°C External	
					KW	COP	KW	COP	KW	COP	KW	COP	KW	COP	KW	COP	KW	COP	KW	COP	KW	COP
300	60	40	2.9	3	312	2.49	384	2.61	456	2.76	522	2.95	522	3.05	522	3.17	522	3.5	522	3.72	522	3.72
	60	50	2.8	2.9	288	2.4	354	2.5	426	2.6	504	2.8	516	2.87	522	2.95	522	3.2	522	3.55	522	3.55
	55	35	3	3.1	324	2.76	396	2.81	480	2.95	522	3.19	522	3.3	522	3.5	522	3.8	522	4.06	522	4.06
	50	35	3.2	3.3	324	2.87	396	2.95	480	3.13	522	3.39	522	3.5	522	3.74	522	4.18	522	4.42	522	4.42
	45	30	3.4	3.5	342	3.11	414	3.21	498	3.42	522	3.76	522	3.85	522	4.19	522	4.74	522	5	522	5

ROWAN 510/375																						
Model name	Output Temp (°C)	Return Temp (°C)	SCOP	SPF	-10°C External		-5°C External		0°C External		5°C External		7°C External		10°C External		15°C External		20°C External		25°C External	
					KW	COP	KW	COP	KW	COP	KW	COP	KW	COP	KW	COP	KW	COP	KW	COP	KW	COP
375	60	40	2.9	3	390	2.49	480	2.61	570	2.76	652.5	2.95	652.5	3.05	652.5	3.17	652.5	3.5	652.5	3.72	652.5	3.72
	60	50	2.8	2.9	360	2.4	442.5	2.5	532.5	2.6	630	2.8	645	2.87	652.5	2.95	652.5	3.2	652.5	3.55	652.5	3.55
	55	35	3	3.1	405	2.76	495	2.81	600	2.95	652.5	3.19	652.5	3.3	652.5	3.5	652.5	3.8	652.5	4.06	652.5	4.06
	50	35	3.2	3.3	405	2.87	495	2.95	600	3.13	652.5	3.39	652.5	3.5	652.5	3.74	652.5	4.18	652.5	4.42	652.5	4.42
	45	30	3.4	3.5	427.5	3.11	517.5	3.21	622.5	3.42	652.5	3.76	652.5	3.85	652.5	4.19	652.5	4.74	652.5	5	652.5	5



———— **THANK YOU //**

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