



CLADE

ROWAN RANGE

2nd Generation

R290 HEAT PUMP //
for HEATING AND HOT WATER

May 2024.5 //



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!

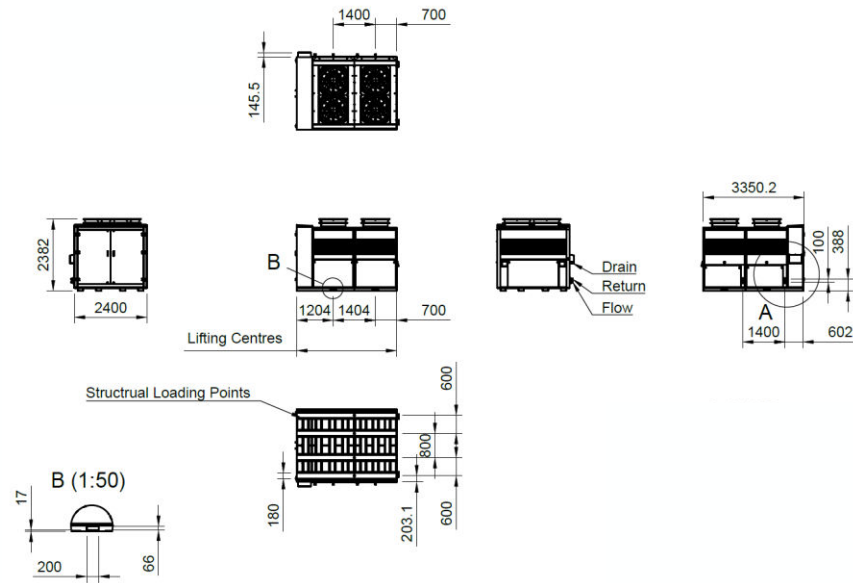


Model	-5°C capacity	+7°C capacity
Rowan SN/150	160KW	240KW
Rowan SN/225	240KW	360KW
Rowan SN/300	320KW	480KW
Rowan SN/375	400kW	600KW

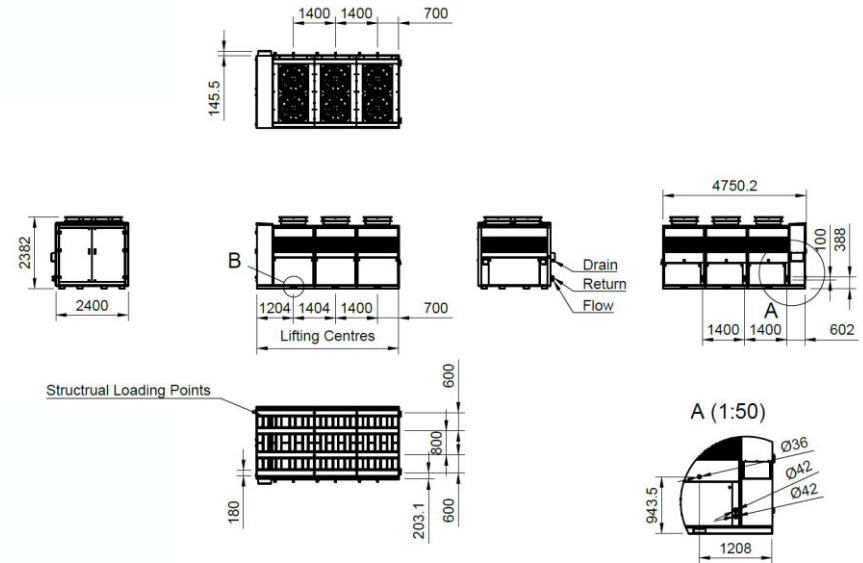
- Future proof refrigerant
- GWP = 0.02
- ODP = 0
- 1D Silencers available to lower noise levels
- External pump which enables accurate sizing for the application
- External header for easy installation available as a kit
- Up to 65°C hot water
- Light and dark grey colour options
- Coated coil option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

DIMENSIONAL INFORMATION 160 & 240KW//

160KW Rowan Propane

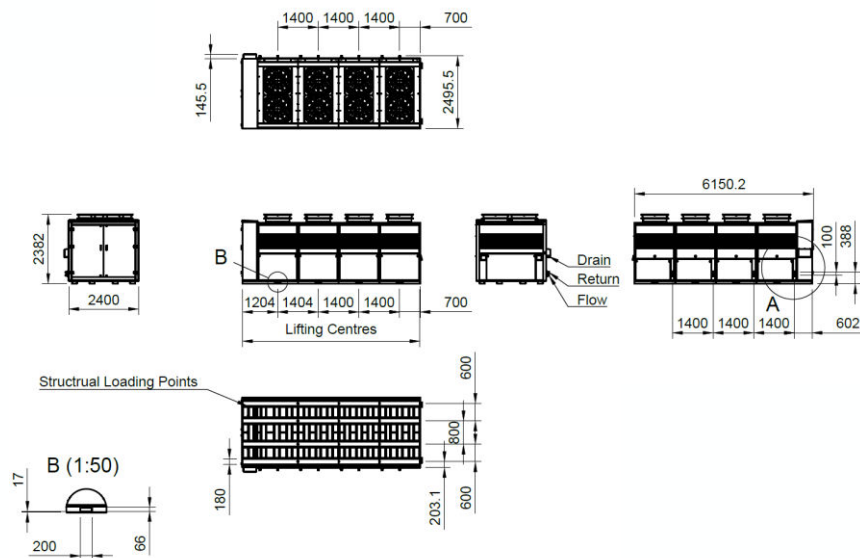


240KW Rowan Propane

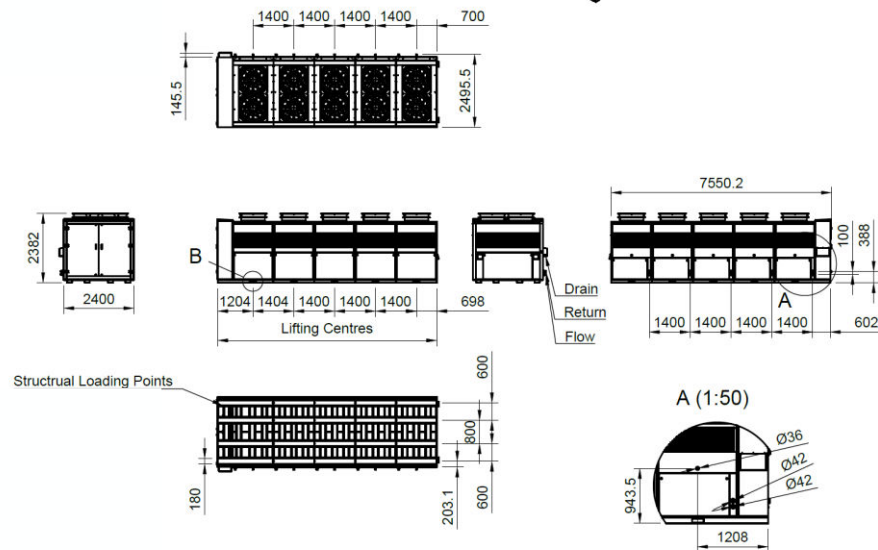


DIMENSIONAL INFORMATION 320 & 400KW//

320KW Rowan Propane



400KW Rowan Propane





TECHNICAL SPECIFICATION //

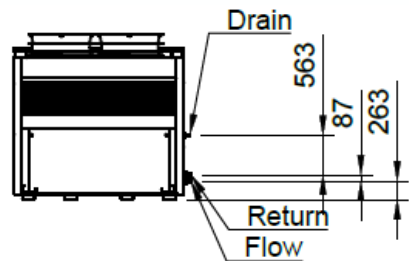
		Rowan Range
Heating &/or Cooling?		Heating
Breaker type		MCCB
Water Flow Temperature	Deg C	60
Water Return Temperature	Deg C	50
Colour		RAL7016 Anthracite
Compressor Manufacturer		Dorin
Connections waterside Pressure Rating	PN	PN6
Control Protocol		BACNET
Control Connection		CAT5e
Controller type		SIEMENS
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 240/160	83.8	64.5	51.4	79.7	60.4	47.2
Rowan SN 360/240	85.6	65.3	52.9	81.5	61.2	48.8
Rowan SN 480/320	86.8	65.8	53.9	82.7	61.7	49.8
Rowan SN 600/400	87.8	66.1	54.7	83.7	62	50.6

Electrical Data

	Total System Electrical Data			
Model	Amps	kW	KVA	VAC
Rowan SN 240/160	175.2	90.0	119.7	400
Rowan SN 360/240	262.8	135.0	179.5	400
Rowan SN 480/320	350.4	180.0	239.3	400
Rowan SN 600/400	438.0	225.0	299.1	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 Heat Pump Performance Characteristics V2.0																									
Model name	Nameplate output (kW)	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	kW	COP
Rowan 160 kW	240	65	50	2.9	3	134	2.18	162	2.33	188	2.45	222	2.59	224	2.8	240	2.86	240	3.11	240	3.26	240	3.41		
		60	30	3	3.11	144	2.49	168	2.61	198	2.76	232	2.95	236	3.05	240	3.17	240	3.5	240	3.72	240	3.72		
		60	40	3	3.11	144	2.4	168	2.55	198	2.7	232	2.9	236	2.95	240	3.02	240	3.4	240	3.6	240	3.6		
		60	45	3	3.11	144	2.4	168	2.5	198	2.6	232	2.8	236	2.87	240	2.92	240	3.2	240	3.55	240	3.55		
		60	50	3	3.27	154	2.76	182	2.81	198	2.95	240	3.19	240	3.3	240	3.5	240	3.75	240	4.06	240	4.06		
		55	35	3.17	3.27	154	2.7	182	2.8	206	2.9	240	3.2	240	3.2	240	3.35	240	3.65	240	4.15	240	4.15		
		55	40	3.17	3.27	154	2.58	182	2.72	206	2.85	240	3.1	240	3.1	240	3.25	240	3.55	240	4	240	4		
		55	45	3.17	3.27	154	2.58	182	2.72	206	2.85	240	3.1	240	3.1	240	3.25	240	3.55	240	4	240	4		
		50	35	3.37	3.48	158	2.87	188	3	236	3.3	240	3.45	240	3.5	240	3.74	240	4.15	240	4.65	240	4.65		
		50	40	3.37	3.48	158	2.92	188	2.9	216	3.2	240	3.35	240	3.4	240	3.65	240	4.08	240	4.55	240	4.55		
		45	30	3.62	3.75	168	3.15	196	3.38	216	3.6	240	3.9	240	4	240	4.2	240	4.7	240	5.35	240	5.35		
		45	35	3.62	3.75	168	3.1	196	3.3	228	3.5	240	3.8	240	3.9	240	4.1	240	4.6	240	5.2	240	5.2		

Rowan Heat Pump Performance Characteristics V2.0																							
Model name	Nameplate output (kW)	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
Rowan 240 kW	360	65	50	2.9	3	201	2.18	243	2.33	282	2.45	333	2.59	336	2.8	360	2.86	360	3.11	360	3.26	360	3.41
		60	30	3	3.11	216	2.49	252	2.61	297	2.76	348	2.95	354	3.05	360	3.17	360	3.5	360	3.72	360	3.72
		60	40	3	3.11	216	2.4	252	2.55	297	2.7	348	2.9	354	2.95	360	3.02	360	3.4	360	3.6	360	3.6
		60	45	3	3.11	216	2.4	252	2.5	297	2.6	348	2.8	354	2.87	360	2.92	360	3.2	360	3.55	360	3.55
		60	50	3	3.27	231	2.76	273	2.81	309	2.95	360	3.19	360	3.3	360	3.5	360	3.75	360	4.06	360	4.06
		55	35	3.17	3.27	231	2.7	273	2.8	309	2.9	360	3.2	360	3.2	360	3.35	360	3.65	360	4.15	360	4.15
		55	40	3.17	3.27	231	2.58	273	2.72	309	2.85	360	3.1	360	3.1	360	3.25	360	3.55	360	4	360	4
		55	45	3.17	3.27	231	2.58	273	2.72	354	2.85	360	3.1	360	3.1	360	3.25	360	3.55	360	4	360	4
		50	35	3.37	3.48	237	2.87	282	3	324	3.3	360	3.45	360	3.5	360	3.74	360	4.15	360	4.65	360	4.65
		50	40	3.37	3.48	237	2.92	282	2.9	324	3.2	360	3.35	360	3.4	360	3.65	360	4.08	360	4.55	360	4.55
		45	30	3.62	3.75	252	3.15	294	3.38	342	3.6	360	3.9	360	4	360	4.2	360	4.7	360	5.35	360	5.35
		45	35	3.62	3.75	252	3.1	294	3.3	342	3.5	360	3.8	360	3.9	360	4.1	360	4.6	360	5.2	360	5.2



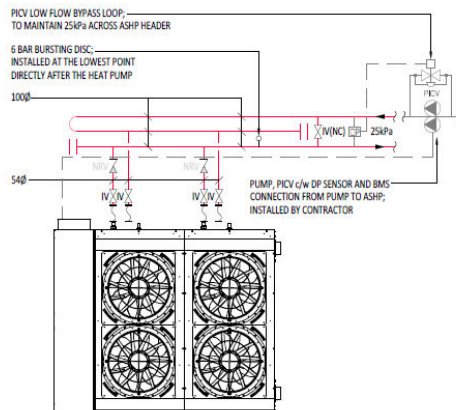
HEAT PUMP PERFORMANCE //

Rowan Heat Pump Performance Characteristics V2.0																							
Model name	Nameplate output (kW)	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
Rowan 320 kW	480	65	50	2.9	3	268	2.18	324	2.33	376	2.45	444	2.59	448	2.8	480	2.86	480	3.11	480	3.26	480	3.41
		60	30	3	3.11	288	2.49	336	2.61	396	2.76	464	2.95	472	3.05	480	3.17	480	3.5	480	3.72	480	3.72
		60	40	3	3.11	288	2.4	336	2.55	396	2.7	464	2.9	472	2.95	480	3.02	480	3.4	480	3.6	480	3.6
		60	45	3	3.11	288	2.4	336	2.5	396	2.6	464	2.8	472	2.87	480	2.92	480	3.2	480	3.55	480	3.55
		60	50	3	3.11	308	2.76	364	2.81	412	2.95	480	3.19	480	3.3	480	3.5	480	3.75	480	4.06	480	4.06
		55	35	3.17	3.27	308	2.7	364	2.8	412	2.9	480	3.2	480	3.2	480	3.35	480	3.65	480	4.15	480	4.15
		55	40	3.17	3.27	308	2.58	364	2.72	412	2.85	480	3.1	480	3.1	480	3.25	480	3.55	480	4	480	4
		55	45	3.17	3.27	308	2.58	364	2.72	472	2.85	480	3.1	480	3.1	480	3.25	480	3.55	480	4	480	4
		50	35	3.37	3.48	316	2.87	376	3	432	3.3	480	3.45	480	3.5	480	3.74	480	4.15	480	4.65	480	4.65
		50	40	3.37	3.48	316	2.92	376	2.9	432	3.2	480	3.35	480	3.4	480	3.65	480	4.08	480	4.55	480	4.55
		45	30	3.62	3.75	336	3.15	392	3.38	456	3.6	480	3.9	480	4	480	4.2	480	4.7	480	5.35	480	5.35
		45	35	3.62	3.75	336	3.1	392	3.3	456	3.5	480	3.8	480	3.9	480	4.1	480	4.6	480	5.2	480	5.2

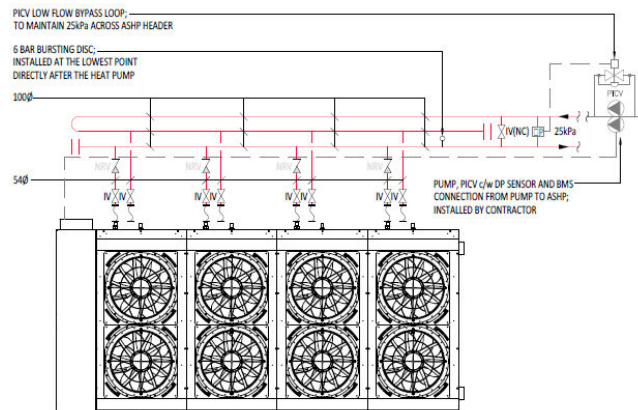
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Model name	Nameplate output (kW)	Output Temp (°C)	Return Temp (°C)	SCOP	SPF	-10°C External		-5°C External		0°C External		5°C External		7°C External		10°C External		15°C External		20°C External		25°C External	
						kW	COP	kW	COP	kW	COP	kW	COP	kW	COP	kW	COP	kW	COP	kW	COP	kW	COP
Rowan 400 kW	600	65	50	2.9	3	335	2.18	405	2.33	470	2.45	555	2.59	560	2.8	600	2.86	600	3.11	600	3.26	600	3.41
		60	30	3	3.11	360	2.49	420	2.61	495	2.76	580	2.95	590	3.05	600	3.17	600	3.5	600	3.72	600	3.72
		60	40	3	3.11	360	2.4	420	2.55	495	2.7	580	2.9	590	2.95	600	3.02	600	3.4	600	3.6	600	3.6
		60	45	3	3.11	360	2.4	420	2.5	495	2.6	580	2.8	590	2.87	600	2.92	600	3.2	600	3.55	600	3.55
		60	50	3	3.11	385	2.76	455	2.81	515	2.95	600	3.19	600	3.3	600	3.5	600	3.75	600	4.06	600	4.06
		55	35	3.17	3.27	385	2.7	455	2.8	515	2.9	600	3.2	600	3.2	600	3.35	600	3.65	600	4.15	600	4.15
		55	40	3.17	3.27	385	2.58	455	2.72	515	2.85	600	3.1	600	3.1	600	3.25	600	3.55	600	4	600	4
		55	45	3.17	3.27	385	2.58	455	2.72	590	2.85	600	3.1	600	3.1	600	3.25	600	3.55	600	4	600	4
		50	35	3.37	3.48	395	2.87	470	3	540	3.3	600	3.45	600	3.5	600	3.74	600	4.15	600	4.65	600	4.65
		50	40	3.37	3.48	395	2.92	470	2.9	540	3.2	600	3.35	600	3.4	600	3.65	600	4.08	600	4.55	600	4.55
		45	30	3.62	3.75	420	3.15	490	3.38	570	3.6	600	3.9	600	4	600	4.2	600	4.7	600	5.35	600	5.35
		45	35	3.62	3.75	420	3.1	490	3.3	570	3.5	600	3.8	600	3.9	600	4.1	600	4.6	600	5.2	600	5.2



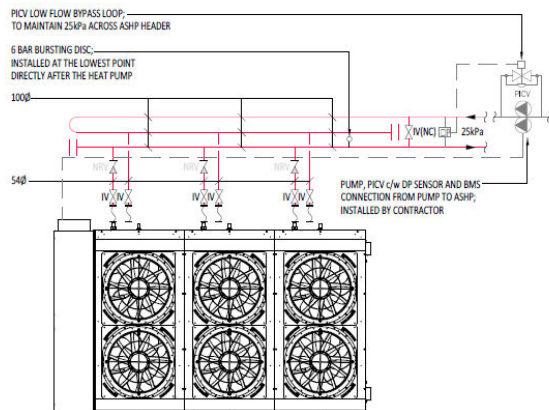
HEADER ARRANGEMENT //



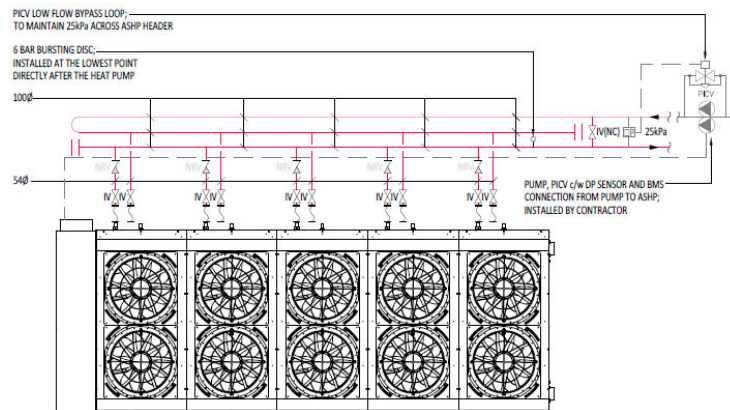
ROWAN 240/160



ROWAN 480/320



ROWAN 360/240



ROWAN 400/600



THANK YOU //

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