



INDUSTRIAL AIR &  
VENTILATION SOLUTIONS  
2021 CATALOGUE

ROOF TOP PACKAGE  
GAS-FIRED PACKAGE

# INDUSTRIAL PACKAGE SOLUTIONS



a brand of ECO GLOBAL INDUSTRIES - [www.ecogbl.com](http://www.ecogbl.com)

# FEATURES & BENEFITS

- + High Efficiency R410a Refrigerant with Compressor Combination
- + Wide Range of Operational Capacities
- + Plug and Play Application
- + Models for Cooling Only, Gas-Fired Package, Cooling & Heating Package, Cooling with Additional Heater Package
- + Compact Design
- + Free Cooling with Full Fresh Air Customisation
- + Programmable Automation System
- + Integrate with Building Management System
- + Belt Driven Radial Fa
- + Wide Range of Options for Different Building Architectural Designs & Functionality
- + Blow and Exhaust Fans Suitable Flow Diversions
- + Operate in Stages in Variable Capacities

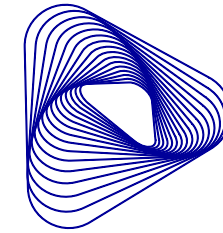
## OPERATIONAL AMBIENT TEMPERATURE RANGE

-15°C and +20°C in Heating Mode  
0°C and 52°C Cooling Mode

## CUSTOMISATION

100% Full Fresh Operation  
Heat Recovery Mode  
HEPA Filters  
Heating with Gas-Fired  
Heating with Electrical-Powered

ECO  
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# TROPICAL ROOF TOP SERIES RICHMOND RANGE

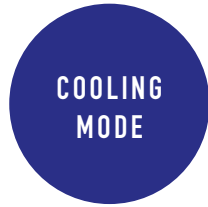
MODEL	Unit	25	35	45	55	65	75	85	105	120	150	170	230
Air Flow (Evaporator)	m <sup>3</sup> /h	5500	6500	8500	9500	12000	14000	15500	18500	20000	24000	30000	36000
External Pressure Loss	Pa	400	400	400	400	400	400	400	400	400	400	400	400
<b>COOLING MODE</b>													
Total Cooling Capacity Normal	kW	27.4	35.3	44.4	54.8	66.2	75.4	89.0	105.2	120.8	151.2	177.2	230.4
Power Pulled	kW	9.1	12.8	15.6	18.6	23.8	26.9	32.6	37.5	42.4	55.7	64.0	85.1
EER	-	3.02	2.76	2.85	2.95	2.78	2.81	2.73	2.81	2.85	2.71	2.77	2.71
<b>HEATING MODE</b>													
Total Heating Capacity Normal	kW	26.5	34.2	43.1	53.8	65.5	74.8	87.8	103.6	118.7	149.8	175.0	228.1
Power Pulled	kW	8.3	11.3	13.9	16.5	21.8	24.6	30.1	33.6	39.0	51.4	59.6	79.5
COP	-	3.18	3.02	3.11	3.27	3.00	3.04	2.92	3.08	3.05	2.92	2.94	2.87
<b>COOLING SYSTEM</b>													
System Number	QTY	1	2	2	2	2	2	2	2	2	2	2	2
Compressor Type	-	Scroll	Scroll	Scroll	Scroll	Scroll	Scroll	Scroll	Scroll	Scroll	Scroll	Scroll	Scroll
Compressor Number	QTY	1	2	2	2	2	2	2	4	4	4	4	4
<b>NATURAL GAS HEATING MODE</b>													
Total Heating Capacity-L	kW	18	18	30	30	61	61	76	76	76	152	152	152
Total Heating Capacity-M	kW	30	30	51	51	100	100	100	100	100	200	200	200
Total Heating Capacity-H	kW	51	51	61	61	122	122	122	122	122	244	244	244
<b>OPTIONAL ADDITIONAL HEATER</b>													
Heating Water Coil	kW	60	70	95	105	130	155	170	200	220	260	320	400
Electric Heaters	kW	42	49	66.5	73.5	91	108.5	119	140	154	182	224	280
<b>INDOOR FAN (EVAPORATOR)</b>													
Fan Type	Vee-Belt Driven	Radial	Radial	Radial	Radial	Radial	Radial	Radial	Radial	Radial	Radial	Radial	Radial
Fan Number	QTY	1	1	1	1	2	2	2	2	2	2	2	2
Fan Motor Power	kW	2.2	3	3	4	3	3	3	4	5.5	5.5	7.5	11
<b>OUTDOOR FAN (CONDENSER)</b>													
Condenser Fan Type	-	Axial	Axial	Axial	Axial	Axial	Axial	Axial	Axial	Axial	Axial	Axial	Axial
Fan Number	QTY	2	2	2	2	2	2	2	4	4	4	4	4
Fan Motor Power	kW	0.49	0.49	1.09	1.09	1.25	1.25	1.97	1.09	1.09	1.75	1.97	2.63
Fan Flow Rate	m <sup>3</sup> /h	10500	10000	15000	17000	21000	22000	28000	34000	36000	46000	50000	64000
<b>OUTDOOR SOUND POWER LEVEL</b>													
Standard Unit Outdoor Sound	dB (A)	85	85	86	85	87	87	88	92	89	90	90	92

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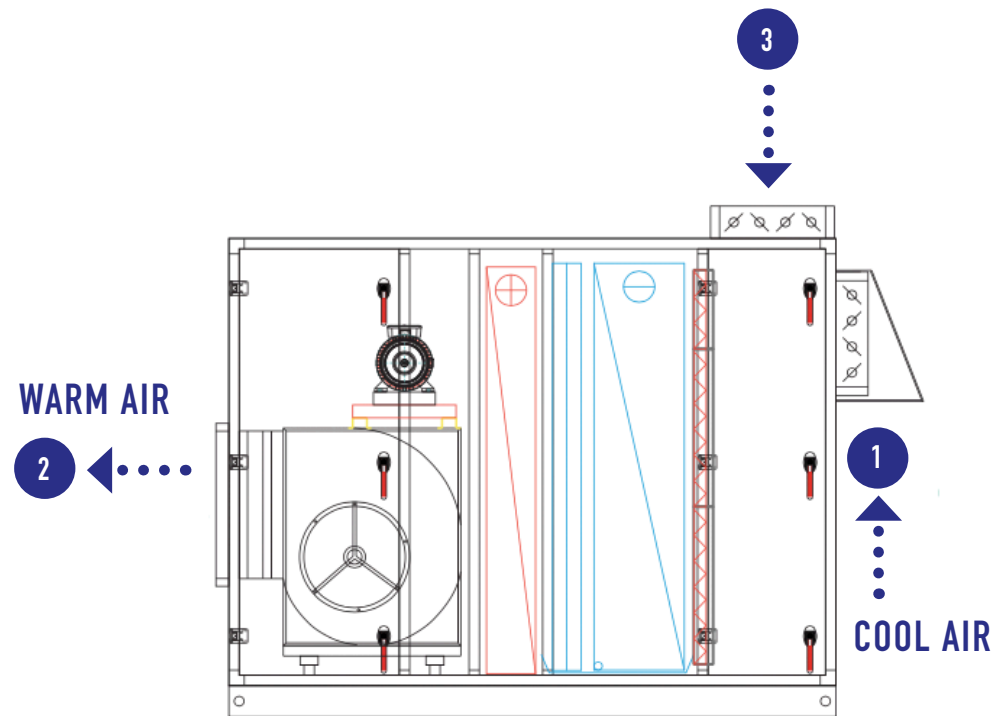
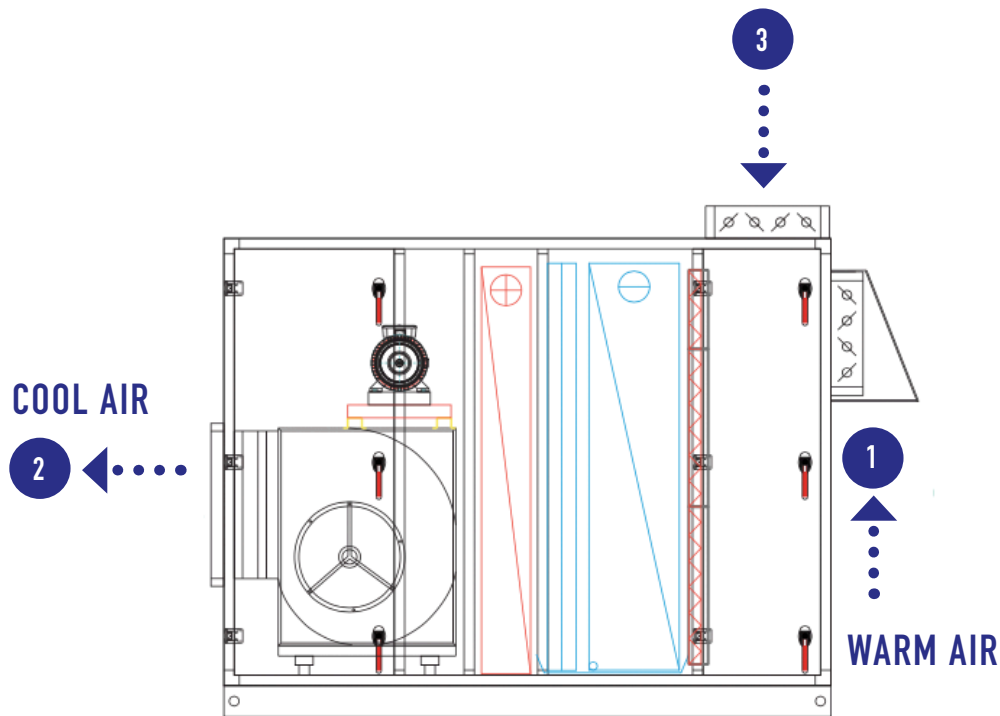
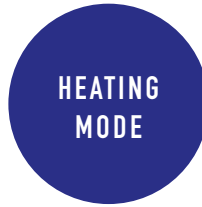
MODEL	Unit	25	35	45	55	65	75	85	105	120	150	170	230
<b>OPERATING TEMPERATURE RANGE</b>													
Cooling Min - Max	C KT	0°C / +52°C											
Heating Min - Max	C KT	-15°C / +20°C											
<b>POWER SUPPLY</b>													
Power Supply	PH / HZ / V	3 PHASE / 50 HZ / 380V											
<b>REFRIGERANT</b>													
Refrigerant Type	-	R410 A											
<b>OPTIONAL EXHAUST FAN</b>													
Fan Type 1	Vee Belt Driven	Radial	Radial	Radial	Radial	Radial	Radial	Radial	Radial	Radial	Radial	Radial	Radial
Fan Type 2	With Direct Couple Motor	Plug	Plug	Plug	Plug	Plug	Plug	Plug	Plug	Plug	Plug	Plug	Plug
Fan Motor Power	kW	1.1	1.1	1.5	1.5	1.5	2.2	5.5	5.5	5.5	5.5	7.5	7.5
<b>PLATE MOUNTED TYPE HEATER RECOVERY MODULE</b>													
Summer, 50% Fresh Air Mixture	kW	3.74	4.63	5.90	6.53	8.25	9.57	-	-	-	-	-	-
Winter, 50% Fresh Air Mixture	kW	6.02	7.45	9.51	10.52	13.30	15.41	-	-	-	-	-	-
<b>ROTARY TYPE HEAT RECOVERY MODULE</b>													
Summer, 50% Fresh Air Mixture	kW	7.56	9.06	11.93	13.73	16.56	18.67	21.22	24.32	26.78	32.23	77.83	92.27
Winter, 50% Fresh Air Mixture	kW	12.08	14.47	19.07	21.96	26.46	29.08	33.89	38.81	42.75	51.46	124.15	147.14
<b>UNITS SIZE (COOLING ONLY   COOLING &amp; HEATING WITH ELECTRICITY) MODELS</b>													
Length (B)	mm	2020	2350	2800	2800	3550	3650	3800	4100	4200	4550	4700	5000
Width (A)	mm	2350	2350	2350	2350	2350	2350	2350	2350	2350	2350	2350	2350
Height (H)	mm	1580	1580	1580	1745	1745	1745	1910	1910	1910	2075	2240	2405
Weight (Standard Unit)	kg	414	445	530	550	770	840	970	1490	1610	1840	2100	2300
<b>UNITS SIZE (HEATING ONLY   COOLING WITH ELECTRICITY &amp; HEATING WITH GAS) MODELS</b>													
Length (B)	mm	2800	2800	3030	3030	3500	3500	4040	4560	4560	5100	5800	600
Width (A)	mm	2350	2350	2350	2350	2350	2350	2350	2350	2350	2350	2350	2350
Height (H)	mm	1910	1910	2075	2075	2075	2075	2075	2075	2080	2210	2405	2570
Weight (Standard Unit)	kg	549	580	710	730	1130	1130	1200	1708	1828	2275	2535	2735

# OPERATING PRINCIPLES ELECTRICAL SERIES

- 1 Fresh Air Intake
- 2 Indoor Blow
- 3 Indoor Intake



- 1 Fresh Air Intake
- 2 Indoor Blow
- 3 Indoor Intake

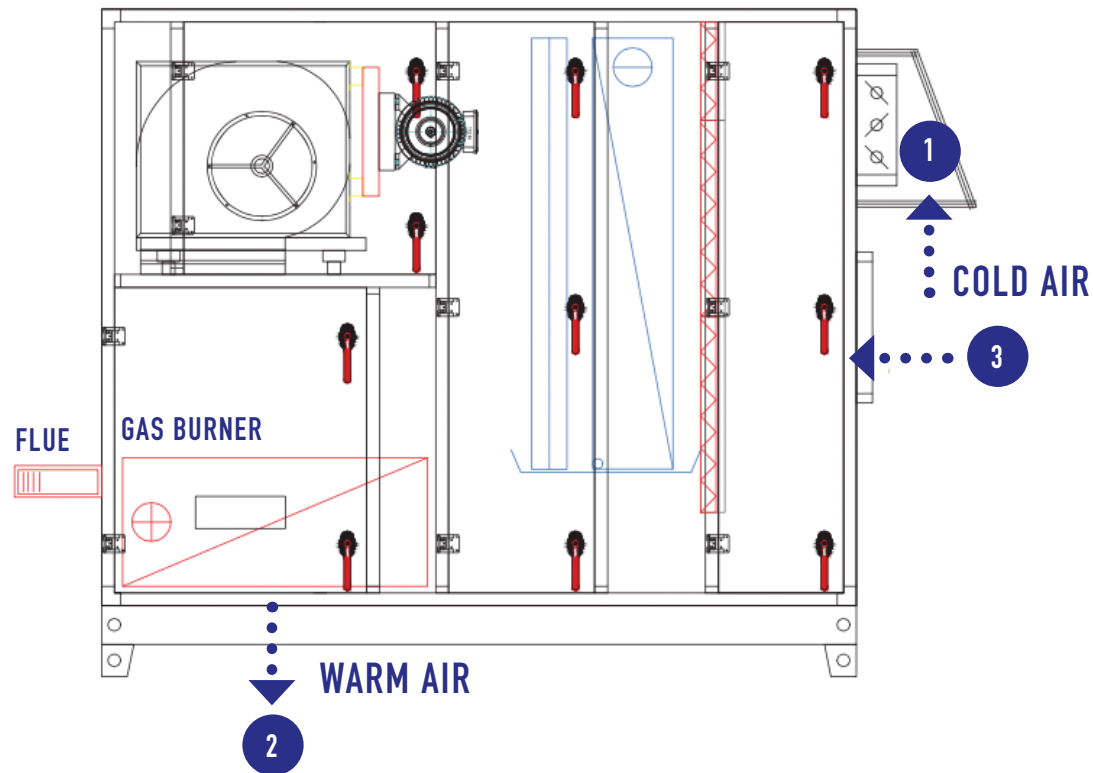


# OPERATING PRINCIPLES GAS SERIES

- 1 Fresh Air Intake
- 2 Indoor Blow
- 3 Indoor Intake



**GAS-FIRED ROOF TOP PACKAGE**





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