

HEAT PUMPS SERIES  
2021 CATALOGUE

RESIDENTIAL & INDUSTRIAL  
**HEAT PUMPS  
SERIES**



## ABOUT US

ECO-ACS (Air Conditioning Solutions) specialises in heavy HVAC equipment for commercial and industrial sectors. Our solutions are engineered for top-performance and reliability. Our manufacturing plants spread across Europe and Asia, allowing for rapid development of specialised equipment for a wide range of climate conditions around the world.

We are committed to deliver superior quality and excellency in our equipment as well as customer care service. We take great pride in supporting our world-wide clients in solving challenging HVAC applications

### R&D COMMITMENT

Rapid advanced allows us to continuously research and develop better solutions for HVAC

### TRIAL & TESTING

All our products and solutions are tested in our labs to ensure top performance

### QUALITY & ASSURANCE

We are committed to deliver high-quality solutions with industrial-verified component

## RESIDENTIAL & INDUSTRIAL HEAT PUMPS SOLUTIONS

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## ULTRA – SIT

### Small Inverter Tropical Heat Pumps Series

Utilising Inverter EVI Technology, our elite range of Ultra-SSIT offers cooling capacity from 9.6kW to 33.1kW and heating capacity from 12.0kW to 41.0kW. The series is capable of delivering operational temperature ambient from -30°C to 52°C at only 42b(A) with ultra low noise fans and motor.

ULTRA-SIT	UNIT	SIT-10	SIT-14	SIT-18	SIT-26T	SIT-30T	SIT-38T
Performance Condition: Outdoor Air 7°C / 6°C, Inlet / Outlet Water 30°C / 50°C							
Heating Capacity	kW	4.2 ~ 12.0	5.6 ~ 14.8	7.2 ~ 20.0	9.8 ~ 27.3	11.5 ~ 31.5	15.0 ~ 41.0
Heating Power Input	kW	1.2 ~ 4.0	1.6 ~ 4.8	2.1 ~ 6.8	3.5 ~ 10.6	4.4 ~ 13.6	5.0 ~ 13.8
Performance Condition: Outdoor Air 35°C / 24°C, Inlet / Outlet Water 12°C / 7°C							
Cooling Capacity	kW	3.6 ~ 9.6	4.2 ~ 10.6	6.3 ~ 16.5	8.3 ~ 23.1	10.2 ~ 28.2	11.9 ~ 33.1
Cooling Power Capacity	kW	1.2 ~ 4.0	1.6 ~ 4.8	2.1 ~ 6.8	3.5 ~ 10.6	4.4 ~ 13.6	5.0 ~ 13.8
Performance Condition: Outdoor Air 20°C / 15°C, Inlet / Outlet Water 15°C / 55°C							
Hot Water Capacity	kW	5.3 ~ 13.5	5.8 ~ 15.1	7.5 ~ 21.1	10.0 ~ 27.5	11.8 ~ 32.0	15.5 ~ 41.5
Hot Water Power Input	kW	1.5 ~ 4.3	1.6 ~ 5.0	2.1 ~ 7.1	3.7 ~ 10.8	4.5 ~ 13.8	5.2 ~ 14.0
Rated Voltage / Frequency	/	208 ~ 240V ~ / 30 ~ 90HZ			380 ~ 460V / 3N ~ / 30 ~ 90Hz		
Max. Power Input	kW	4.6	4.8	7.0	10.6	13.6	16.0
Max. Current Input	A	21.0	21.8	32.0	17.0	25.5	31.2
Refrigerant / Proper Input	kg	R410A / 2.2kg	R410A / 2.5kg	R410A / 2.8kg	R410A / 4.5kg	R410A / 5.0kg	R410A / 6.6kg
CO <sub>2</sub> Equivalent	Ton	4.59	5.22	5.85	9.40	10.44	13.78
Sound Pressure Noise (1m)	dB(A)	38 ~ 52	40 ~ 53	42 ~ 54	44 ~ 57	44 ~ 58	40 ~ 60
Compressor	/	GMCC	LANDA	GMCC	PANASONIC	PANASONIC	HIGHLY
Circulation Pump	/	WILO	WILO	WILO	WILO	GRUNDFOS	GRUNDFOS
Operating Ambient Temperature	°C	-30 ~ 52	-30 ~ 52	-30 ~ 52	-30 ~ 52	-30 ~ 52	-30 ~ 52
Fan Motor Type	/	DC	DC	DC	DC	DC	DDC
Unit Dimension (LxWxH)	mm	960 x 445 x 910	1000 x 395 x 1325	1000 x 395 x 1325	1175 x 400 x 1600	1175 x 400 x 1600	1700 x 800 x 1685



# ULTRA - LTM8

## Large Tropical Modular Heat Pumps Series

Ultra-LTM8 is a specialised modular Tropical Heat Pumps Series, engineered for a wide range of ambient temperature operations from -10°C to 52°C. Offering high reliability with alterative cycle duty operations, back-up functions, reliable protections and intelligent defrosting technology, our Ultra-LTM8 excels in reliability and performance stability.

ULTRA-LTM8		UNIT	LTM8-F30	LTM8-F60	LTM8-F120	LTM8-F180	LTM8-F250
Power Supply		V/Ph/Hz	380 - 415 / 3 / 50	380 - 415 / 3 / 50	380 - 415 / 3 / 50	380 - 415 / 3 / 50	380 - 415 / 3 / 50
Cooling Water Inlet / Outlet: 12°C / 7°C, and Outdoor Ambient Temp. of 35°C DB	Capacity	kW	30.0	60.0	120.0	180.0	250.0
	Input	kW	10.0	19.3	38.5	57.9	78.3
	EER		3.00	3.11	3.12	3.11	3.19
Cooling Water Inlet / Outlet: 12°C / 7°C, and Outdoor Ambient Temp. of 46°C DB	Capacity	kW	26.0	52.0	104.0	156.0	216.0
	Input	kW	11.0	22.1	43.0	64.5	86.3
	EER		2.36	2.35	2.42	2.42	2.50
Heating Water Inlet / Outlet: 40°C/ 45°C, and Outdoor Ambient Temp. 7°C DB/6°C WB	Capacity	kW	32.0	64.0	128.0	195.0	270.0
	Input	kW	9.8	19.8	41.5	59.4	80.0
	COP		3.27	3.23	3.08	3.28	3.38
Maximum Running Current		A	21.1	51.7	130.0	155.1	200.0
Compressor	Type		Fixed Scroll	Fixed Scroll	Fixed Scroll	Fixed Scroll	Fixed Scroll
	Quantity	Pieces	2	3	4	6	8
Refrigerant	Type / Charged Volume		R410A / 6.2kg	R410A / 12.0kg	R410A / 26.0kg	R410A / 39.0kg	R410A / 60.0kg
	Throtte Type		EXV	EXV	EXV	EXV	EXV
Sound Pressure Level (1m Away in Open Field)		dB(A)	65	67	70	74	74
Maximum Combinations			16	16	8	5	8
Ambient Temperature	Cooling	°C	10 ~ 52	10 ~ 52	10 ~ 52	10 ~ 52	10 ~ 52
	Heating	°C	-10 ~ 21	-10 ~ 21	-10 ~ 21	-10 ~ 21	-10 ~ 21
Unit Net Dimensions	D x H x W	mm	1514 x 1865 x 841	2000 x 1880 x 900	2000 x 2090 x 1685	2850 x 2110 x 2000	3800 x 2130 x 2000



# ULTRA - MM16

## Medium Modular Heat Pumps Series

Developed with H-Shape Heat Exchanger, our Ultra-MM offers 360° air intake and increase the heat exchanging surface area, providing superior efficiency. Our range of operation for this series is from -15°C to 24° in Heating Mode and -10°C to 46°C in Cooling Mode

ULTRA-MM16		UNIT	MM16-SP35	MM16-SS35	MM16-SS65	MM16-SS80	MM16-SS130
Power Supply		V/Ph/Hz	380 - 415 / 3 / 50	380 - 415 / 3 / 50	380 - 415 / 3 / 50	380 - 415 / 3 / 50	380 - 415 / 3 / 50
Cooling Water Inlet / Outlet: 12°C / 7°C, and Outdoor Ambient Temp. of 35°C DB	Capacity	kW	35	35	65	80	130
	Input	kW	12.7	11.5	20.4	25.8	42.3
	EER		2.76	3.04	3.19	3.10	3.07
Heating Water Inlet / Outlet: 40°C / 45°C, and Outdoor Ambient Temp. 7°C DB/6°C WB	Capacity	kW	38	37	69	85	138
	Input	kW	12.5	11.3	21.5	26.5	43
	COP		3.04	3.27	3.21	3.21	3.21
Maximum Running Current		A	32.1	27.0	54.5	65	109
Compressor	Type		Fixed Scroll	Fixed Scroll	Fixed Scroll	Fixed Scroll	Fixed Scroll
	Quantity	Pieces	1	1	1	2	2
Refrigerant	Type / Charged Volume		R410A / 5.4kg	R410A / 5.4kg	R410A / 10.5kg	R410A / 13.0kg	R410A / 21.0kg
	Throtte Type		EXV	EXV	EXV	EXV	EXV
Sound Pressure Level (1m Away in Open Field)		dB(A)	64	65	67	67	68
Maximum Combinations			16	16	16	16	16
Ambient Temperature	Cooling	°C	-10 ~ 46	-10 ~ 46	-10 ~ 46	-10 ~ 46	-10 ~ 46
	Heating	°C	-15 ~ 24	-15 ~ 24	-15 ~ 24	-15 ~ 24	-15 ~ 24
Unit Net Dimensions	D x H x W	mm	1020 x 1770 x 980	1020 x 1770 x 980	2000 x 1770 x 960	2000 x 1770 x 960	2200 x 2060 x 1120

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**HEAT PUMPS  
EQUIPMENT**



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