



Technical catalogue

# Climate control equipment

Industrial Air Conditioners

**HES AIR SOURCE HEAT PUMP CONTROLLER** is designed to control air conditioning systems in residential, commercial, office and industrial buildings.

The controller maintains control over the multifunctional systems with the option



of selecting both: separate units and all the units at once:

- ▶ Heating mode;
- ▶ Cooling mode;
- ▶ Ventilation mode;
- ▶ Smart mode

of controlling indoor space dehumidification;

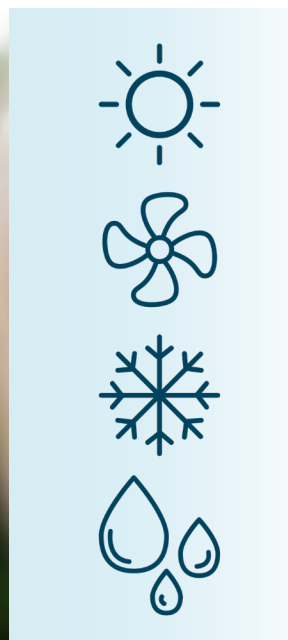
▶ Control of up to 128 units cascade;

▶ IR remote control for each internal unit;

▶ Additional function of fresh air mixing;

▶ Central display unit for dispatching control.

The controller allows for the most effective resources consumption to improve the coefficient of the system efficiency.



Control from around the world:

- ▶ Remote diagnostics and monitoring of heat pump technical conditions and its performance parameters using iOS and Android applications;
- ▶ Data storage on event server;
- ▶ Charts for systems operation analysis and optimization.

## DUCTED SPLIT SYSTEMS

### PRINCIPLE OF OPERATION

The internal unit of the ducted air conditioner may be equipped with additional noise insulation of the body. It is mounted in the finished ceiling. Due to this the sound pressure (noise) level is considerably less in comparison with other types of split systems.

The split systems are classed as semi-industrial equipment for air conditioning. Besides cooling and heating, they also purify the air.

One of the available functions is fresh air mixing. It should be noted that not all ducted air conditioners are capable to ensure the fresh air intake. It is because a ducted air conditioner is, first of all, intended for operation in the recirculation mode.

The volume (amount) of the fresh air intake to the internal unit is defined as per specified design requirements depending on particular characteristics and purpose.

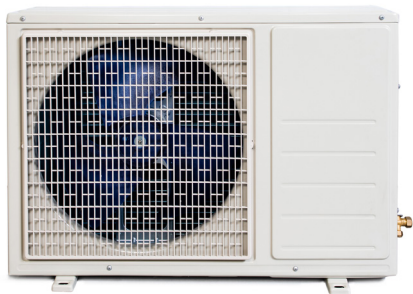


Normally it makes 15% of the air output volume.

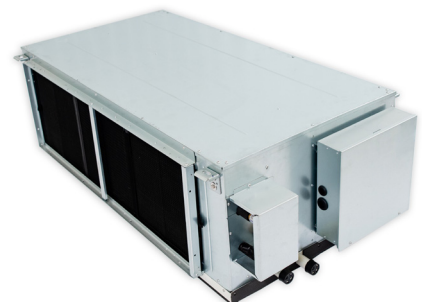
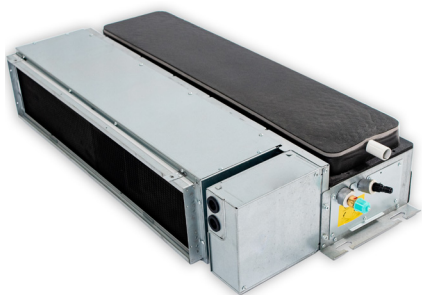
Thus, the semi-industrial ducted air conditioners provide instant freshness and purity of the indoor air coming in filtered and free of dust and bacteria.



## HES AIR DUCTED SPLIT SYSTEMS



### External units



### Internal units

The split system is used for space cooling and heating.

The external unit is equipped with a hermetically sealed compressor, a phase relay, a starting current load relief, a condenser, an evaporator and safety actuators– high/low pressure relay.

Availability of clock/calendar function and day/night mode allows to more precisely maintain indoor temperature and save resources.

### DEVICE PARAMETERS

- ▶ Refrigerant R410A;
- ▶ Low level of noise;
- ▶ Built-in Wi-Fi interface;
- ▶ Modern ergonomic design of internal unit;
- ▶ Standardized connection dimensions;
- ▶ Automatic restart;
- ▶ Remote control unit provided;
- ▶ High energy performance: seasonal energy efficiency class “A++”;
- ▶ Internal units are completed with antibacterial and antiviral filter with silver ions;
- ▶ “Frost protect” mode allows for energy-conserving background heating – minimum indoor temperature may be +10°C.

Model		HES AIR D						
		5 κBT	7 κBT	10 κBT	13κBT	13κBT	16 κBT	
Internal		HES-AIR-i-18-D-4	HES-AIR-i-24-D-4	HES-AIR-i-36-D-4	HES-AIR-i-60-D-4	HES-AIR-i-60-D-h-4	HES-AIR-i-60-D-4	
External		HES-AIR-i-18-A-N-4	HES-AIR-i-24-A-N-4	HES-AIR-i-36-A-N-4	HES-AIR-i-60-A-N-4	HES-AIR-i-60-A-N-6	HES-AIR-i-100-A-N-6	
Power supply	V-Ph-Hz	220-240-1-50			380-415-3-50			
Maximum demanded power	W	1500		2200		3300		
Maximum current consumption	A	12	13,0	26,5	26,5	9,5	13	
Cooling	Capacity	W	5000	7000	10880	10880	13000	17000
	Capacity	BTU/h	17060	23884	34163	34163	40846	53414
	Demanded power	W	1720	3505	2200	2200	2200	3300
	Current consumption	A	7,5	6,9	21	21	8	13
	EER	W/W	2,91	3,01	2,4	2,4	3,14	2,64
Heating	Capacity	W	5300	8500	13000	13000	12200	20300
	Capacity	BTU/h	18083	29000	36363	36363	41627	63783
	Demanded power	W	1670	3100	2200	2200	2200	3300
	Current consumption	A	7,3	6,6	26	26	8	13
	COP	W/W	3,41	3,63	2,99	2,99	3,20	3,27
Air volume (High/Med/Low)	m <sup>3</sup> /h	1100/900/600	1600/1000/900	2600/1900/1200	4000/2800/1600		5000/3200/1600	
External static pressure (ESP)	Nominal	Pa	10	50	37	37	196	150
	Range	Pa	10/30	50/80	0/160	0/160	-	-
Internal unit noise level (High/Med/Low)	dB(A)	38/36/35	40/38/37	44/41/39	44/41/39	60/57/51	55	
Internal unit	Dimensions (WxDxH)	mm	900×190×480	1385×350×800	1000×245×700	1380×350×800	1200×719×380	1350×700×460
	Package (WxDxH)	mm	1070×236×580	1550×410×940	1630×300×830	1550×410×940	1235×760×415	1540×810×610
	Net/Gross weight	kg	20/26	54/62	42/48	42/48	55/59	91/111
Rated pressure (High/Low)	MPa	4.1/1.6	4.1/1.6	4.1/1.6	4.1/1.6	4.1/1.6	4.1/1.6	
Dia of drainage duct	mm	26	32	26	32	25	32	
Controller		Remote control						
Compressor	Model	SNB172FSHM1	TNB220FLHMC	TNB306FPGMT	TNB306FPGMT	MNB33FEAMC	ANB42FNDMT	
	Type	Rotor/scroll						
	Brand	Mitsubishi Electric						
External unit noise level	dB(A)	54	62	57	57	60	63	
External unit	Dimensions (WxDxH)	mm	800x285x715	840x330x880	1050x330x1350			
	Package (WxDxH)	mm	1050×500×890	1100×500×1100	1300×600×1710			
	Net/Gross weight	kg	42/45	67/71	72.5/77	72.5/77	99/109	176/191
Refrigerant	Type	R410A						
	Filling volume	kg	1,30	2,60	2,5	2,5	3,3	3.7x2
Refrigerant tubes	Liquid/Gas	mm (inch)	∅6.35/ ∅9.52(1/4'/3/8')	∅9.52/ ∅12.7(3/8'/1/2')	∅9.52/ ∅12.7(3/8'/1/2')	∅9.52/ ∅12.7(3/8'/1/2')	∅9.52/ ∅15.88(3/8'/5/8')	∅9.52/ ∅19.05(3/8'/3/4')
	Maximum length	m	25	40	65		50	
	Maximum height difference	m	15	20	30		20	
Temperature	Cooling	°C	-5 +43					
	Heating	°C	-15 +24					

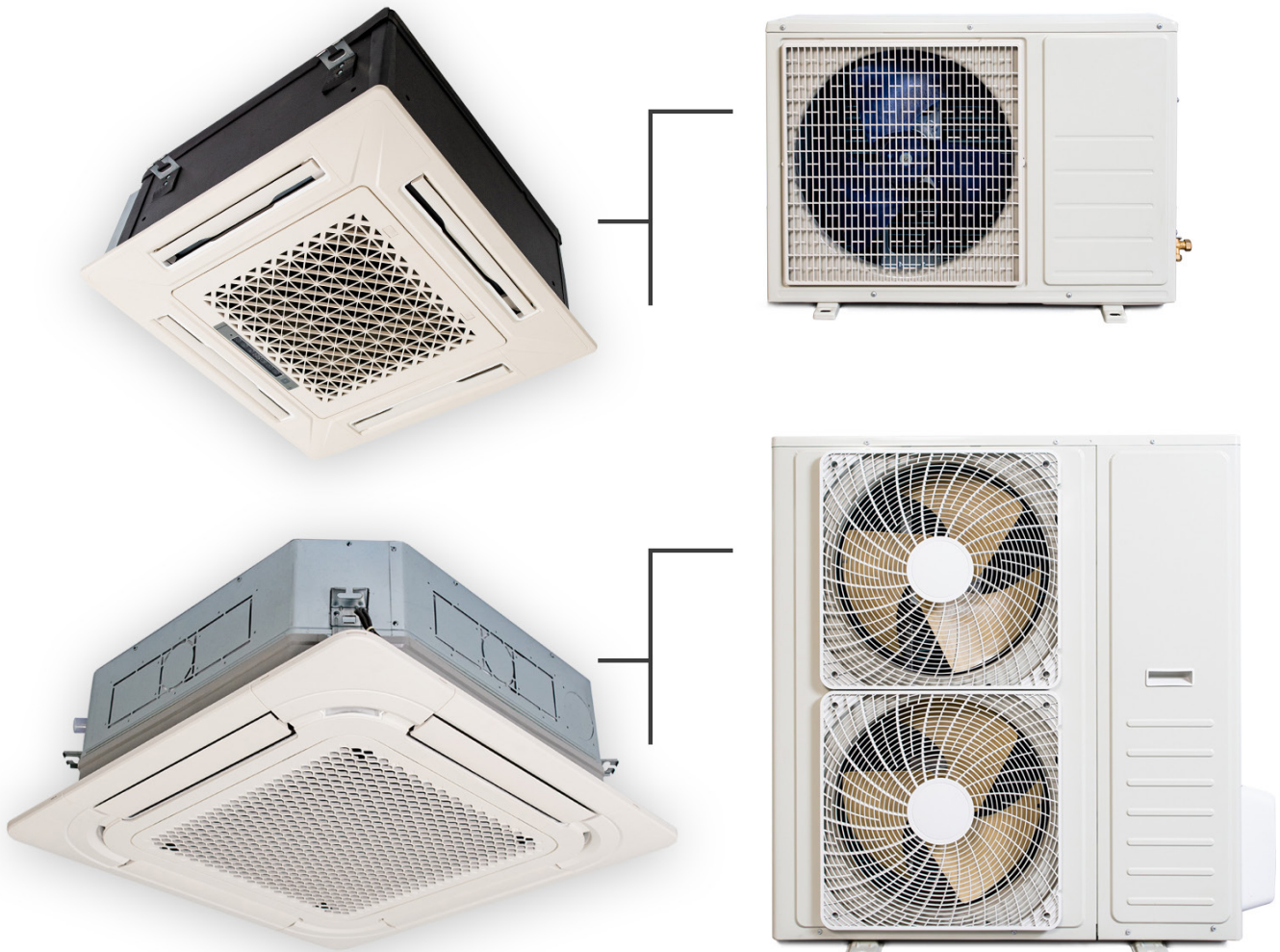
## CASSETTE SPLIT SYSTEMS

### PRINCIPLE OF OPERATION

The design of the cassette air conditioner has been developed with due regard to contemporary trends in architecture. Besides that, consideration for European standards in the field of construction and possibility of installation in renovated buildings allow the cassette air conditioners be high on the list in the market of climatic systems.

**Cassette air conditioners** are exactly the type of climatic technology, which provides fast and uniform creation and sustaining of a comfort indoor temperature.

The air intake in the cassette air conditioner occurs through a grid in the center of the indoor unit panel and the cooled air is distributed in four directions. When installing this air conditioner in the center of the room, the maximum level of comfort is provided. Cassette split systems have an elegant design (only the front panel is visible) and allow fresh air to flow in. The main disadvantage of such systems is the need for suspended ceilings and sufficient ceiling void (from 25 cm).





The cassette air conditioners in the office. The main advantage of the cassette split systems is the uniform distribution of air flow in four directions, which allows using only one air conditioner for evenly cool a large room.

## HES AIR C CASSETTE SPLIT SYSTEMS



### External units



### Internal units

The split system is used for space cooling and heating.

The external unit is equipped with a hermetically sealed compressor, a phase relay, a starting current load relief, a condenser, an evaporator and safety actuators – high/low pressure relay.

Availability of clock/calendar function and day/night mode allows to more precisely maintain indoor temperature and save resources.

### DEVICE PARAMETERS

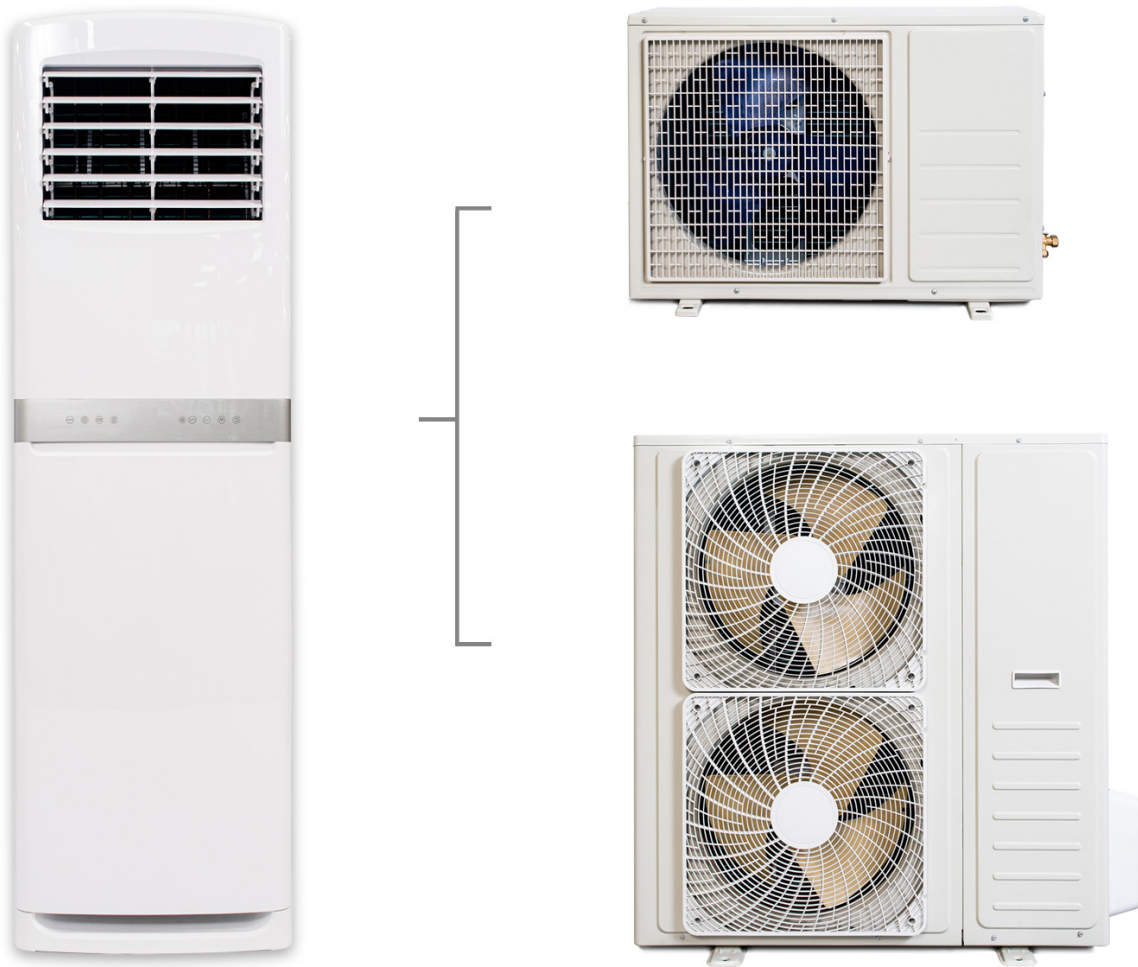
- ▶ Refrigerant R410A;
- ▶ Low level of noise;
- ▶ Built-in Wi-Fi interface;
- ▶ Modern ergonomic design of internal unit;
- ▶ Standardized connection dimensions;
- ▶ Automatic and manual airflow control in all directions;
- ▶ Automatic restart;
- ▶ Remote control unit provided;
- ▶ High energy performance: seasonal energy efficiency class “A++”;
- ▶ Internal units are completed with antibacterial and antiviral filter with silver ions;
- ▶ “Frost protect” mode allows for energy-conserving background heating – minimum indoor temperature may be +10°C.



Model		HES AIR C					
		5 κBТ	7 κBТ	10 κBТ	13κBТ	16 κBТ	
Internal		HES-AIR-i-18-C-4	HES-AIR-i-24-C-4	HES-AIR-i-36-C-4	HES-AIR-i-48-C-4	HES-AIR-i-60-C-4	
External		HES-AIR-i-18-A-N-4	HES-AIR-i-24-A-N-4	HES-AIR-i-36-A-N-4	HES-AIR-i-48-A-N-6	HES-AIR-i-60-A-N-6	
Power supply		V-Ph-Hz	220-240-1-50			380-415-3-50	
Maximum demanded power		W	1500		2200		
Maximum current consumption		A	12	13,0	26,5	9,5	9,5
Cooling	Capacity	W	5000	7000	10880	13000	13000
	Capacity	BTU/h	17060	23884	34163	40846	40846
	Demanded power	W	1720	3505	2200	2200	2200
	Current consumption	A	7,5	6,9	21	8	8
	EER	W/W	2,91	3,01	2,4	3,14	3,14
Heating	Capacity	W	5300	8500	13000	12200	12200
	Capacity	BTU/h	18083	29000	36363	41627	41627
	Demanded power	W	1670	3100	2200	2200	2200
	Current consumption	A	7,3	6,6	26	8	8
	COP	W/W	3,61	3,41	3,63	3,16	3,16
Air volume (High/Med/Low)		m <sup>3</sup> /h	1100/900/600	1600/1000/900	2600/1900/1200	4000/2800/1600	5000/3200/1600
External static pressure (ESP)	Nominal	Pa	0	0	0	0	0
	Range	Pa	0	0	0	0	0
Internal unit noise level (High/Med/Low)		dB(A)	46/44/42	43/41/38	53/50/48	50/45/42	50/45/42
Internal unit	Dimensions (WxDxH)	mm	660x260x580	840x240x840	840x270x840	840x270x840	840x270x840
	Package (WxDxH)	mm	770x310x750	996x370x956	996x370x956	996x420x956	996x420x956
	Net/Gross weight	kg	20/27	28/35	30/39	33/42	33/42
Panel	Dimensions (WxDxH)	mm	650x40x650	950x40x950			
	Package (WxDxH)	mm	730x130x730	1025x120x1015m			
	Net/Gross weight	kg	2.4/ 5	6.5/9.5			
Rated pressure (High/Low)		MPa	4.8/1.6	4.1/1.6	4.1/1.6	4.15/1.5	4.15/1.5
Dia of drainage duct		mm	∅26	∅32			
Controller		Remote control					
Compressor	Model		TNB220FLHMC	TNB220FLHMC	TNB220FLHMC	MNB33FEAMC	MNB33FEAMC
	Type	Rotor/scroll					
	Brand	Mitsubishi Electric					
External unit noise level		dB(A)	54	56	62	58	58
External unit	Dimensions (WxDxH)	mm	800x285x715	840x330x880	1050x330x1350		
	Package (WxDxH)	mm	1050x500x890	1100x500x1100	1300x600x1710		
	Net/Gross weight	kg	42/45	51/56	67/71	106/116	106/116
Refrigerant	Type	R410A					
	Filling volume	kg	1,3	1,7	2,9	3.6	3.6
Refrigerant tubes	Liquid/Gas	mm (inch)	∅6.35/ ∅12.7(1/4"/1/2")	∅9.52/ ∅15.88(3/8"/5/8")	∅9.52/ ∅19(3/8"/3/4")	∅9.52/ ∅19.05(3/8"/3/4")	∅9.52/ ∅19.05(3/8"/3/4")
	Maximum length	m	25	35	40	60	60
	Maximum height difference	m	15	15	20	30	30
Temperature	Cooling	°C	-5 +43				
	Heating	°C	-15 +24				

## FLOOR STANDING SPLIT SYSTEMS

The floor standing air conditioners are featured by high performance and large coverage area. The cooling power of the floor standing split-systems is from 5 to 16 kW, which allows them to efficiently process air even in very spacious, high and complex spaces up to 200 square meters. They are installed in hotels, restaurants, gyms, large public spaces and medical facilities.



Most often, floor standing air conditioners are chosen in cases where it is not possible to install a wall or ceiling unit. Split system has an impressive list of advantages:

- ▶ High power and performance;
- ▶ Easy mounting;
- ▶ Fast and efficient conditioning of extra-large spaces;
- ▶ Quiet operation of internal unit;
- ▶ Even cooling/heating without draughts;
- ▶ Wide functionality;

- ▶ Attractive appearance fitting in modern interior design;
- ▶ Easy in handling and reliable during operation;
- ▶ When installed near doors, may be used as outdoor hot air shutoff.



## HES AIR F TOWER SPLIT SYSTEM



**External units**



**Internal units**

The split system is used for space cooling and heating.

The heat pump is equipped with a hermetically sealed compressor, a phase relay, a starting current load relief, a condenser, an evaporator and safety actuators – high/low pressure relay.

Availability of clock/calendar function and day/night mode allows to more precisely maintain indoor temperature and save resources.

### DEVICE PARAMETERS

- ▶ Refrigerant R410A;
- ▶ Low level of noise;
- ▶ Built-in Wi-Fi interface;
- ▶ Modern ergonomic design of internal unit;
- ▶ Standardized connection dimensions;
- ▶ Automatic and manual airflow control;
- ▶ Automatic restart;
- ▶ High energy performance: seasonal energy efficiency class “A++”;
- ▶ Internal units are completed with antibacterial and antiviral filter with silver ions;
- ▶ “Frost protect” mode allows for energy-conserving background heating – minimum indoor temperature may be +10°C.

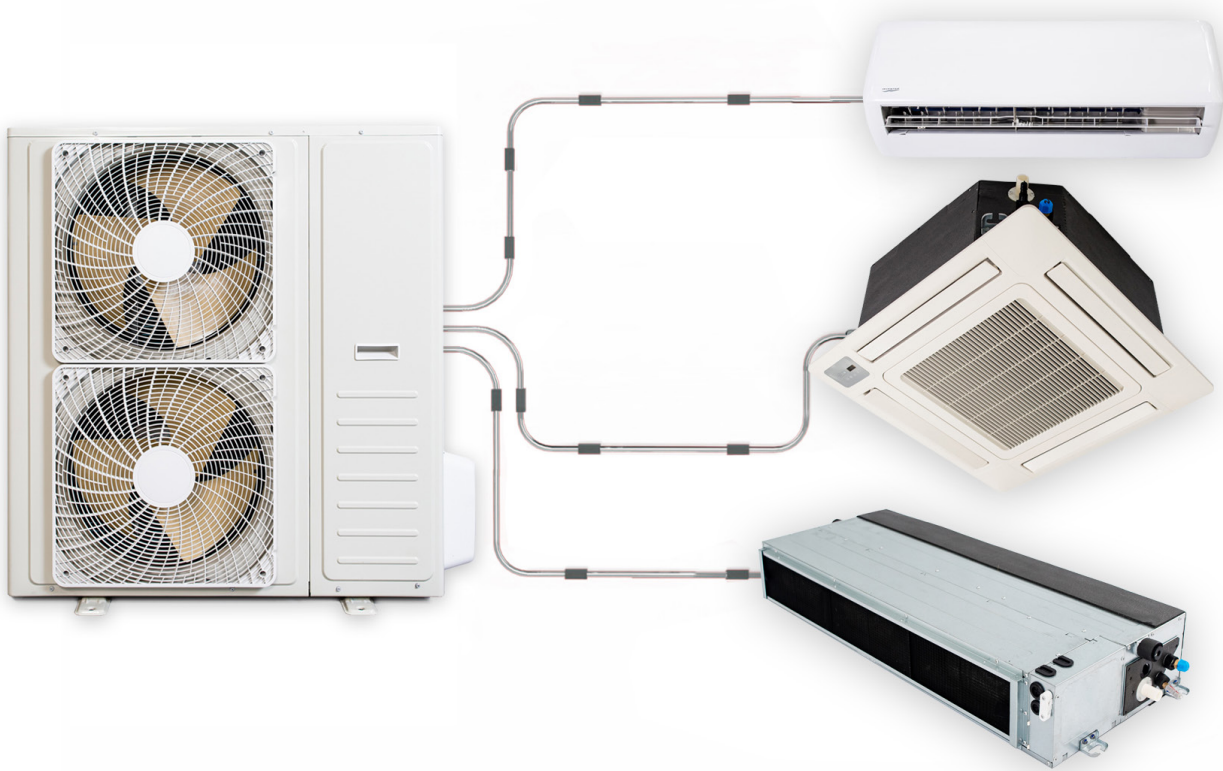
Model		HES AIR F				
		7 κBT	10 κBT	13κBT	16 κBT	
Internal		HES-AIR-i-24-F-4	HES-AIR-i-36-F-4	HES-AIR-i-60-F-4	HES-AIR-i-100-F-4	
External		HES-AIR-i-24-A-N-4	HES-AIR-i-36-A-N-4	HES-AIR-i-60-A-N-6	HES-AIR-i-100-A-N-6	
Power supply	V-Ph-Hz	220-240-1-50		380-415-3-50		
Maximum demanded power	W	1500	2200		3300	
Maximum current consumption	A	13,0	26,5	9,5	13	
Cooling	Capacity	W	7000	10880	13000	17000
	Capacity	BTU/h	23884	34163	40846	53414
	Demanded power	W	3505	2200	2200	3300
	Current consumption	A	6,9	21	8	13
	EER	W/W	3,01	2,4	3,14	2,64
Heating	Capacity	W	8500	13000	12200	20300
	Capacity	BTU/h	29000	36363	41627	63783
	Demanded power	W	3100	2200	2200	3300
	Current consumption	A	6,6	26	8	13
	COP	W/W	3,41	3,63	3,16	3,27
Air volume (High/Med/Low)	m3/h	1600/1000/900	2600/1900/1200	4000/2800/1600	5000/3200/1600	
Internal unit noise level (High/Med/Low)	dB(A)	47	54	50/45/42	55	
Internal unit	Dimensions (WxDxH)	mm	1860xØ350(450)	1780x506x315	1876x580x380	1200x380x1850
	Package (WxDxH)	mm		1860x610x430	2055x690x525	1270x420x2000
	Net/Gross weight	kg	35/42	38/43	33/42	126/131
Rated pressure (High/Low)	MPa	4.1/1.6	4.1/1.6	4.15/1.5	4.1/1.6	
Controller		Remote control				
Compressor	Model	TNB220FLHMC	TNB220FLHMC	MNB33FEAMC	ANB42FNDMT	
	Type	Rotor/scroll				
	Brand	Mitsubishi Electric				
External unit noise level	dB(A)	56	58	58	63	
External unit	Dimensions (WxDxH)	mm	840x330x880	1050x330x1350		
	Package (WxDxH)	mm	1100x500x1100	1300x600x1710		
	Net/Gross weight	kg	51/56	67/71	54,6/59	176/191
Refrigerant	Type	R410A				
	Filling volume	kg	1,7	2,9	3.6	3.7x2
Refrigerant tubes	Liquid / Gas	mm (inch)	Ø9.52/Ø12.7(3/8"/1/2")	Ø9.52/Ø15.88(3/8"/5/8")	Ø9.52/Ø19.05(3/8"/3/4")	Ø9.52/Ø19.05(3/8'/3/4')
	Maximum length	m	35	40	60	50
	Maximum height difference	m	15	20	30	20
Temperature	Cooling	°C	-5 +43			
	Heating	°C	-15 +24			

## MULTI SPLIT SYSTEMS

### PRINCIPLE OF OPERATION

Multi-split systems are a type of split-systems. Their difference lies in the fact that several internal units are connected to one external unit - usually from 2 to 5. At the same time, internal units may be not only of different capacities, but also of different types.

Multi-split systems allow saving the building outer wall space and not spoiling the building appearance with external units.



In multi-split systems, a separate freon route is laid between the external and each of the internal units.

Multi-split systems operate in one mode for either cooling or heating.

### Advantages of multi split systems:

- ▶ Minimum impact on building appearance;
- ▶ Ability to combine air conditioners of various types in one system;
- ▶ Ability to simultaneously cool/heat up to 9 rooms with one system;
- ▶ Ability to create its own temperature regime in each conditioned room;
- ▶ Maximum quiet operation.

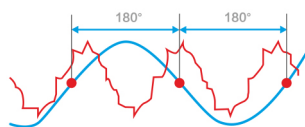
## HES AIR NB. EXTERNAL UNITS

### GENERAL CHARACTERISTICS



#### Very high energy performance.

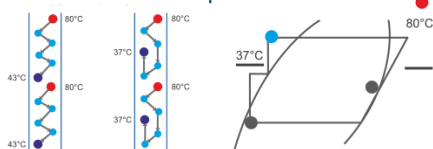
Equipped with highly efficient DC inverter compressor, adjustable fan and 180° sinusoid vector diver.



#### 180°C sinusoidal wave control

The DC inverter compressor uses 180° sine vector control technology ensuring the compressor motor runs smoothly, and greatly improves efficiency.

#### Ambient air temperature



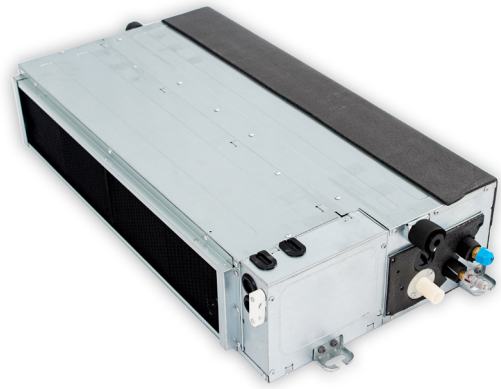
#### Improved design of heat exchanger

Design provides overcooling and increases cooling power separating the refrigerant inlet/outlet.

Model	Unit of measurement	Specifications		
External unit		<b>HES-AIR-i-24-A-O-4</b>	<b>HES-AIR-i-36-A-O-6</b>	<b>HES-AIR-i-100-A-O-6</b>
Maximum number of connected internal units	pcs	2	3	5
Nominal refrigerating capacity	W	5300 (2000-5830)	7900 (2300-8690)	12000 (2770-12700)
Nominal heating capacity	W	5600 (2210-6160)	8200 (2450-9020)	13000 (2960-12800)
Nominal demanded power in cooling mode	W	1750 (280-2300)	2460 (560-3400)	3600 (800-4200)
Nominal demanded power in heating mode	W	1540 (280-2300)	2270 (560-3400)	3650(730-3800)
Nominal current in cooling mode	A	7,60	10,7	16,0
Nominal current in heating mode	A	6,70	9,80	16,50
ELECTRIC POWER SUPPLY	Ph/V~/Hz	1/220-240/50 - 3/380/50		
Air volume	m <sup>3</sup> /h	2100	2700	6400
Noise level	dB (a)	55	58	57
FREON TYPE R410 A				
Weight Factory filling weight	kg	1,35	1,40	3,40
Outside operation temperature range (Cooling/Heating)	°C	-15 +43/ -25 +24		
DIMENSIONS AND WEIGHT				
External unit	W/D/H, mm	950x285x715	840x330x880	1170x345x1350
External unit	kg	36,0	46,0	97,0

## HES AIR. CHANNEL MODELS

### GENERAL CHARACTERISTICS



#### Flexible installation

Rear air intake as standard. The size of the plate on the bottom is the same as the flange on the back, allowing to conveniently change the installation style depending on finishing requirements.



#### High static pressure.

Adjustable static pressure from 0 Pa to 160 Pa maximum

Model	Unit of measurement	Specifications		
External unit		HES-AIR-i-9-MQ-4	HES-AIR-i-12-MQ-4	HES-AIR-i-18-MQ-4
Nominal refrigerating capacity	W	2600	3600	5100
Nominal heating capacity	W	2900	4000	5800
Nominal demanded power in cooling mode	W	45	75	137
Nominal demanded power in heating mode	W	45	75	137
Nominal current in cooling mode	A	0,21	0.34	0.63
Nominal current in heating mode	A	0,21	0.34	0.63
ELECTRIC POWER SUPPLY	Ph / V~ / Hz	1/220-240/50		
Air volume (fan speed: high/med/low)	m <sup>3</sup> /h	420/336/294	580/464/406	860/688/602
Noise level	dB (A)	30/26/23	32/28/25	38/35/32
DIAMETERS OF TUBES				
Liquid tube	mm	Ø 6,35	Ø 6,35	Ø 6,35
Gas tube	mm	Ø 9,52	Ø 9,52 (Ø 12,70)	Ø 9,52 (Ø 12,70)
DIMENSIONS AND WEIGHT				
Internal unit	W/D/H, mm	840x465x185	840x185x440	1160x185x440
Internal unit	kg	16,5	17,5	21,0



## HES AIR V. CASSETTE 4-DIRECTION MODELS

### GENERAL CHARACTERISTICS



#### Integrated drain pump

Built-in drain pump can lift condenser water up to 1,200 mm from the tray



#### Additional internal units (circular feed)

Model	Unit of measurement	Specifications		
Internal unit		<b>HES-AIR-i-9-MK-4</b>	<b>HES-AIR-i-12-MK-4</b>	<b>HES-AIR-i-18-MK-4</b>
Decorative panel		HES AIR DP13	HES AIR DP13	HES AIR DP13
Nominal refrigerating capacity	W	2800	3600	5000
Nominal heating capacity	W	3000	3900	5600
Nominal demanded power in cooling mode	W	70	70	70
Nominal demanded power in heating mode	W	70	70	70
Nominal current in cooling mode	A	0,32	0,32	0,32
Nominal current in heating mode	A	0,32	0,32	0,32
ELECTRIC POWER SUPPLY	Ph/V~/Hz	1/220-240/50		
Air volume (fan speed: high/med/low)	m <sup>3</sup> /h	700/600/530	700/600/530	700/600/530
Noise level	dB (A)	45/41/35	45/41/35	45/41/35
DIAMETERS OF TUBES				
Liquid tube	mm	Ø 6,35	Ø 6,35	Ø 6,35
Gas tube	mm	Ø 9,52 (Ø 12,70)	Ø 9,52 (Ø 12,70)	Ø 9,52 (Ø 12,70)
DIMENSIONS AND WEIGHT				
Internal unit	W/D/H, mm	570x570x260	570x570x260	570x570x260
Decorative panel	W/D/H, mm	650x650x40	650x650x40	650x650x40
Internal unit	kg	18,0	18,0	18,0
Decorative panel	kg	2,2	2,2	2,2

## HES AIR W. WALL MODELS

### GENERAL CHARACTERISTICS



#### Automatic failure detection

In the event of a failure, the indicator will flash and a fault code will be displayed on the wired controller.



#### Long lasting washable filter

Washing period is twice as long as a conventional filter.


Model	Unit of measurement	Specifications		
Internal unit		<b>HES-AIR-i-9-MW-4</b>	<b>HES-AIR-i-12-MW-4</b>	<b>HES-AIR-i-18-MW-4</b>
Nominal refrigerating capacity	W	2550	3500	5300
Nominal heating capacity	W	2650	3500	5400
Nominal demanded power in cooling mode	W	40	40	63
Nominal demanded power in heating mode	W	40	40	63
Nominal current in cooling mode	A	0,20	0,20	0,30
Nominal current in heating mode	A	0,20	0,20	0,30
ELECTRIC POWER SUPPLY	Ph/V~/Hz	1/220-240/50		
Air volume (fan speed: high/med/low)	m <sup>3</sup> /h	840/720/650	840/720/650	1000/850/700
Noise level	dB (A)	41	42	48
DIAMETERS OF TUBES				
Liquid tube	mm	∅ 6,35	∅ 6,35	∅ 6,35
Gas tube	mm	∅ 9,52	∅ 9,52	∅ 12,70
DIMENSIONS AND WEIGHT				
Internal unit	W/D/H, mm	750X195X280	785X200X295	900X220X310
Internal unit	kg	9	9	12,5

## DEFINITION OF MODEL NAMES

model **HES - AIR - i - 60 - A - N - 6**

1 2 3 4 5 6

<b>1</b>	<b>AIR</b>	Heat pump of «air - air» series
<b>2</b>		start-stop
	<b>i</b>	inverter
<b>3</b>	<b>9</b>	2,5 kW
	<b>12</b>	4 kW
	<b>18</b>	5 kW
	<b>24</b>	7 kW
	<b>36</b>	10 kW
	<b>48</b>	13 kW
	<b>60</b>	13 kW
	<b>100</b>	16 kW
<b>4</b>	<b>A</b>	Freon R410A
	<b>B</b>	Freon R32
	<b>C</b>	Freon R134A
	<b>D</b>	Freon R454B
<b>5</b>		standard
	<b>D</b>	ducted
	<b>C</b>	cassette
	<b>F</b>	floor standing
	<b>W</b>	wall-mounted
	<b>MW</b>	multi-split wall-mounted
	<b>MQ</b>	multi-split ducted
	<b>MK</b>	multi-split cassette
<b>6</b>	<b>4</b>	power supply 220-240 V; 1 phase; 50 Hz
	<b>6</b>	power supply 380 V; 3 phases; 50 Hz

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**HES**

HOME ELECTRO SYSTEM

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