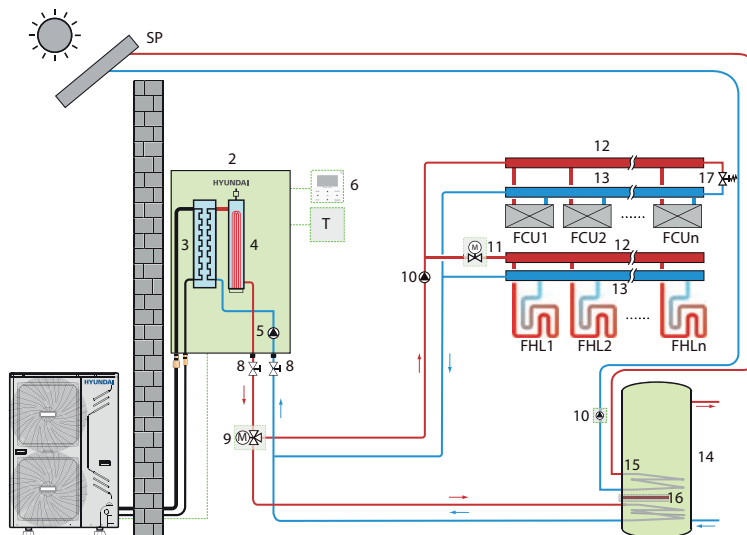


# HEAT PUMPS SUPREME SPLIT

+ SPLIT TYPE  
HYDRAULIC MODULE

The air-water type of HYUNDAI SPLIT heat pump is an effective and energy-efficient device which absorbs heat from the surrounding outside air to use it for central heating and domestic water heating. If cooling is needed, the HYUNDAI SPLIT heat pump can reverse the process to air-condition the rooms.

HYUNDAI hydraulic module combines with SPLIT heat pump compressor to make a common system. It is equipped with a plate-type heat exchanger and optional electric heater. The heat pump module can be connected to DHW system, floor heating system and fan coil units. Its important feature is the possibility to change the circuit by filling the floor system and fan coil units with cold water to cool the rooms.



1. External unit
2. Hydraulic module
3. Plate-type heat exchanger
4. Additional electric heater
5. Internal circulation pump
6. User interface
7. Room thermostat
8. Stop valve
9. 3-way valve with the actuator
10. External circulation pump
11. 2-way valve with the actuator
12. Dispenser
13. Collector
14. Domestic hot water tank
15. Heat exchanger coil
16. Immersion heater
17. Bypass valve
- FHL 1 ... n Floor heating loops
- FCU 1 ... n Fan coil units
- SP Solar panel

Technical specification

SPLIT heat pump compressor model			HHPS-M4TH	HHPS-M6TH	HHPS-M8TH	HHPS-M10TH	HHPS-M12TH	HHPS-M14TH	HHPS-M16TH	
Matching hydraulic module model			HHPMD-M60THI		HHPMD-M100THI		HHPMD-M160THI			
Power supply			V/Ph/Hz	220-240/1/50			380-415/3/50			
Heating (LWT=35°C) <small>(Outside temperature 2°C, 85% RH, EWT 30°C, LWT 35°C)</small>	Efficiency	kW	4.45	5.50	7.10	8.20	9.30	11.40	13.00	
	Power consumption	kW	1.10	1.39	1.73	2.02	2.35	3.12	3.71	
	COP	-	4.05	3.95	4.10	4.05	3.95	3.65	3.50	
Heating (LWT=35°C) <small>(Outside temperature 7°C, 85% RH, EWT 23°C, LWT 35°C)</small>	Efficiency	kW	4.25	6.20	8.30	10.0	12.1	14.5	16.0	
	Power consumption	kW	0.82	1.24	1.60	2.00	2.44	3.09	3.56	
	COP	-	5.20	5.00	5.20	5.00	4.95	4.70	4.50	
Heating (LWT=55°C) <small>(Outside temperature 7°C, 85% RH, EWT 47°C, LWT 55°C)</small>	Efficiency	kW	4.40	6.00	7.50	9.50	12.0	13.8	16.0	
	Power consumption	kW	1.49	2.00	2.36	3.06	3.87	4.60	5.52	
	COP	-	2.95	3.00	3.18	3.10	3.10	3.00	2.90	
Cooling (LWT=18°C) <small>(Outside temperature 35°C, EWT 23°C, LWT 18°C)</small>	Efficiency	kW	12.00	13.50	14.90	10.00	12.00	13.50	14.90	
	Power consumption	kW	3.00	3.75	4.38	2.08	3.00	3.75	4.38	
	EER	-	4.00	3.60	3.40	8.78	4.00	3.60	3.40	
Cooling (LWT=7°C) <small>(Outside temperature 35°C, EWT 12°C, LWT 7°C)</small>	Efficiency	kW	11.6	12.7	14.0	8.20	11.6	12.7	14.0	
	Power consumption	kW	4.22	4.98	5.71	2.48	4.22	4.98	5.71	
	EER	-	2.75	2.55	2.45	5.98	2.75	2.55	2.45	
Seasonal Energy Efficiency Rating, heating mode	LWT =35°C	-	A+++	A+++	A+++	A+++	A+++	A+++	A+++	
	LWT =55°C	-	A++	A++	A++	A++	A++	A++	A++	
Overcurrent protection		A	20	20	20	20	16	16	16	
Sound pressure level (max.)		dB(A)	44	45	46	49	50	51	55	
Dimensions of external unit (WxHxD)		mm	1008x712x426		1118x865x523		1118x865x523			
Weight net/gross		kg	58/64	58/64	77/88	77/88	112/125	112/125	112/125	
Compressor	Type		DC INVERTER with double rotor (Mitsubishi)							
Fan engine type			DC engine							
Additional volume of agent for over 15m			20g/m			30g/m				
Connection to freon system	Fluid refrigerant / Gas refrigerant	mm	6.35 / 15.88			9.52 / 15.88				
Level difference between compressor and internal unit		m	max. 20		max. 20		max. 20			
System length		m	2-30		2-30		2-30			
Refrigerant	Type / Gas volume	kg	R32 / 1,5	R32 / 1,5	R32 / 1,65	R32 / 1,65	R32 / 1,84	R32 / 1,84	R32 / 1,84	
Expanding element			Electronic expansion valve (EXV)							
Recommended working range	Cooling	°C	-5/43							
	Heating	°C	-25/35							
	DHW	°C	-25/43							
Hydraulic module for SPLIT heat pump			HHPMD-M60THI	HHPMD-M100THI	HHPMD-M160THI					
Leaving water temperature range	Heating / Cooling / DHW	°C	25 ~ 65 / 5 ~ 25 / 30 ~ 60							
Power supply		V/Ph/Hz	220-240/1/50			380-415/3/50				
Sound pressure level (max.)		dB(A)	28		30		32			
Dimensions of unit (WxHxD)		mm	420x790x270							
Weight net/gross		kg	37/43			39/45				
Heat exchanger for water			Plate-type exchanger							
Water pump (prod. Grundfos)	Max. delivery head	m	9							
Expansion vessel (original circuit)	Volume / Pressure	L / MPa	8 / 0.3							
Electric heater	Power / Power supply	kW / V/Ph/Hz	3~6kW / 220-240/1/50				6~9kW / 380-415/3/50			
Water system connection	For water	mm	R1"							
Freon system connection	Fluid refrigerant / Gas refrigerant	mm	6.35 / 15.88			9.52 / 15.88				

\*RH - relative humidity  
 \*\*EWT- entering water temperature  
 \*\*\*LWT- leaving water temperature

\*Device is compliant with the EU Directive 811/2013