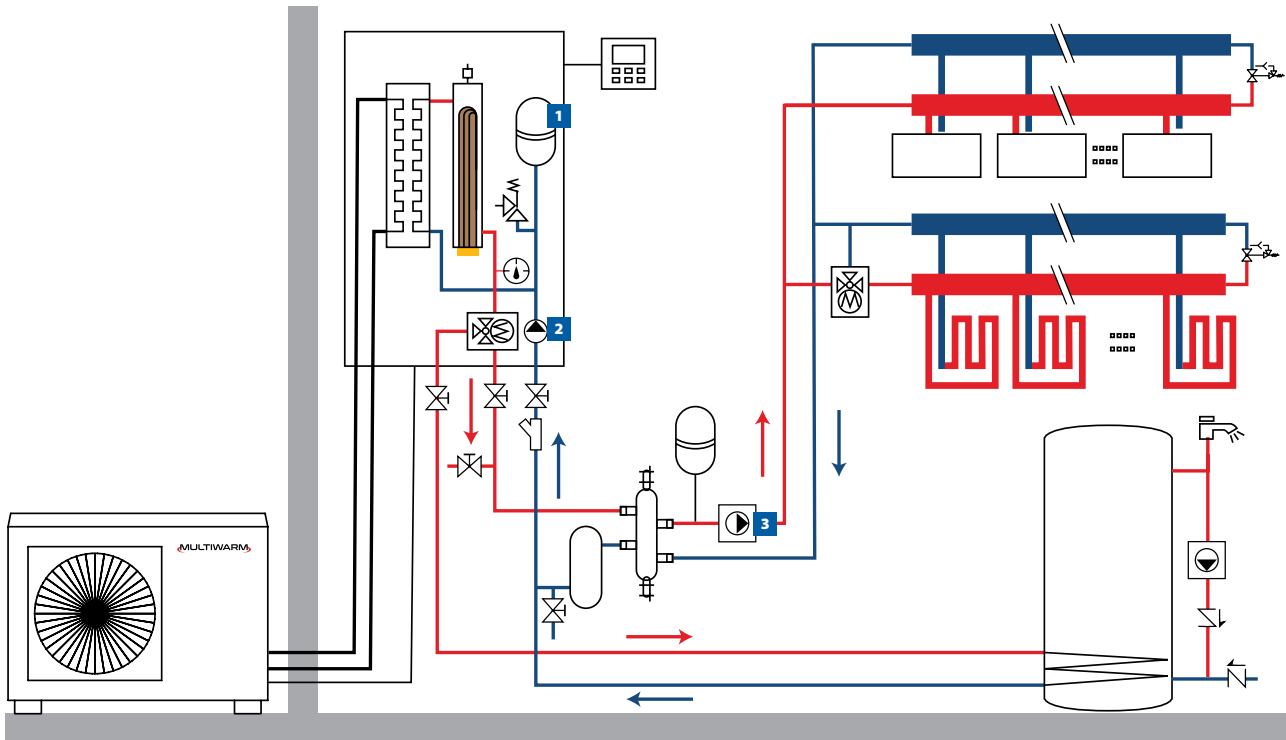


## SPLIT MODEL WITH HYDROMODULE - SYSTEM DIAGRAM



NOTES: 1. Expansion vessel referred to the system circuit. Check that what is included in the unit is sufficient for the purpose. 2. Primary circulator on the plant side. 3. Secondary circulator on the plant side.



### DMG-HP-Z control

Group control, connects up to four Monobloc R32 or Split Series units, even combined with each other. Main functions:

- > Silent mode;
- > quick hot water;
- > Holiday mode;
- > climate;
- > child lock;
- > anti-legionella programming via electrical resistance in the tank;
- > error reset;
- > weekly timer.



# SPLIT MODULE WITH HYDROMODULE

MCENGS 600 Z



MCENGS 800~1200 Z  
MCESGS 1400~1600 Z



MHNGS 400-1600 Z  
MHSGS 1200~1600 Z



## ENERGY CLASS

A+++

In heating mode with 35°C delivery water temperature.

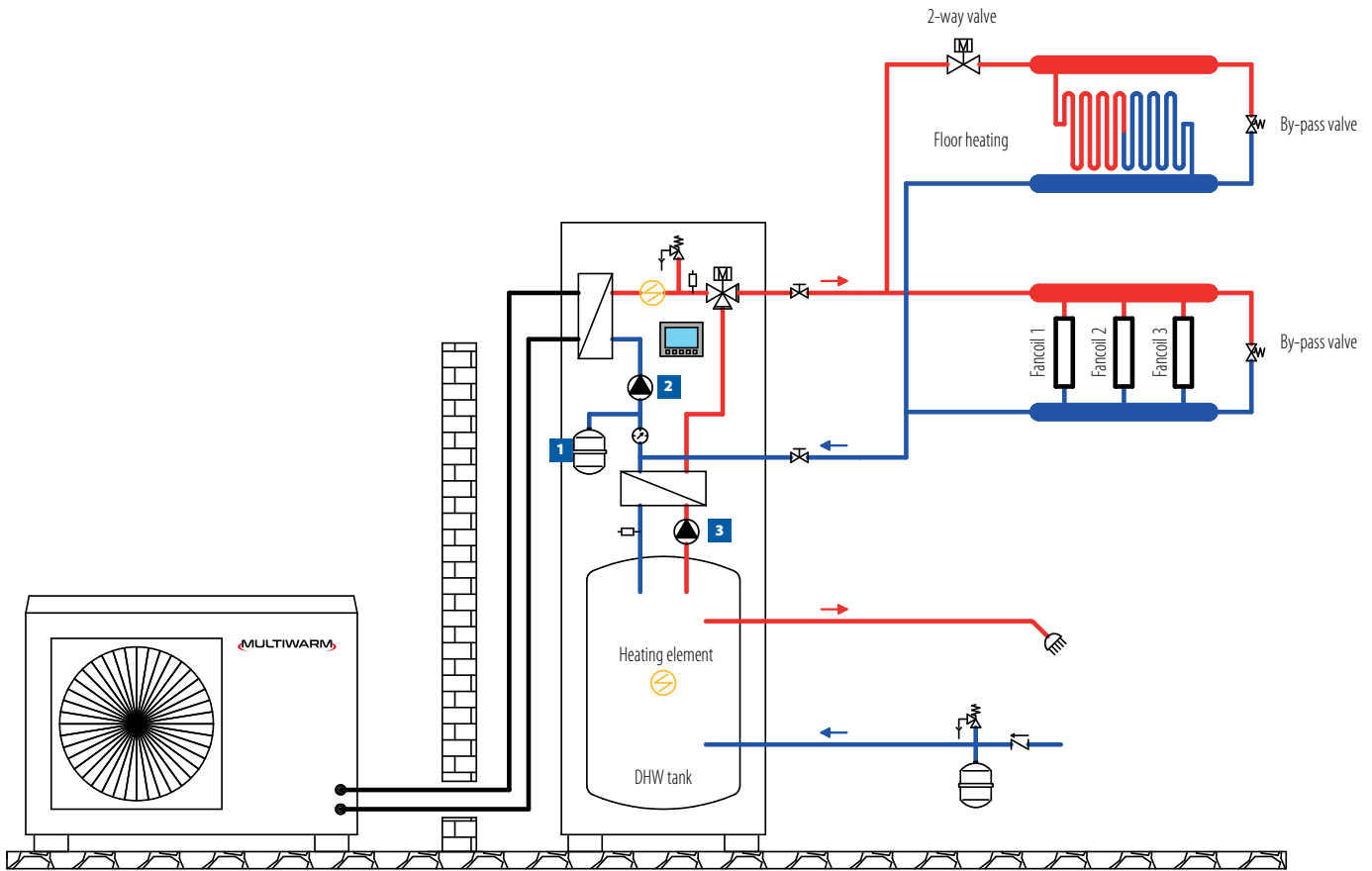
A++

In heating mode with 55°C delivery water temperature.

Outdoor unit model				MCENGS 600 Z	MCENGS 800 Z	MCENGS 1000 Z	MCENGS 1200 Z	MCESGS 1400 Z	MCESGS 1600 Z	
Heating	Rated power	A7//W35	kW	6.00	8.00	10.00	12.00	14.00	15.50	
	Electrical absorption		kW	1.20	1.61	2.10	2.40	2.98	3.44	
	Performance coefficient		COP	5.00	4.97	4.76	5.00	4.70	4.51	
	Rated power	A7//W45	kW	5.80	8.00	9.85	12.40	14.44	16.13	
	Electrical absorption		kW	1.52	2.07	2.69	3.29	3.63	4.16	
Performance coefficient	COP		3.82	3.86	3.66	3.77	3.98	3.88		
Cooling	Rated power	A35//W18	kW	5.80	7.70	9.35	11.00	12.60	13.00	
	Electrical absorption		kW	1.13	1.72	2.36	2.50	3.41	3.6	
	Energy efficiency		EER	5.15	4.48	3.96	4.40	3.70	3.61	
	Rated power	A35//W7	kW	4.00	7.15	7.60	10.59	11.24	11.52	
	Electrical absorption		kW	1.16	2.49	2.77	3.79	4.13	4.38	
Energy efficiency	EER		3.45	2.87	2.74	2.79	2.72	2.63		
Seasonal heating data	Theoretical load (Pdesignh) @ -10°C	35/55	kW	6/5	7/7	9/8	11/11	12/13	13/13	
	Seasonal energy efficiency (ηs)		%	178.7/127.4	181/129	181/127	182/126	175/131	175/131	
	Energy efficiency class		-	A+++/A++	A+++/A++	A+++/A++	A+++/A++	A+++/A++	A+++/A++	
	Annual energy consumption		kWh/y	2729/3169	3149/4371	4038/5091	4967/6985	5552/7958	6027/7958	
Operating range	Outdoor air temperature	Heating	°C	-25~35						
		Cooling		10~48						
		DHW		-25~45						
Refrigerant circuit data	Refrigerant type (GWP)				R32 (675)					
	Pre-charge quantity (tons CO2)	kg (t)	1.1 (0.743)		1.84 (1.242)		1.84 (1.242)			
	Piping diameter liquid/gas	mm (inch)	6.35(1/4") / 12.74(1/2")		6.35(1/4") / 12.74(1/2")		6.35(1/4") / 15.88(5/8")			
	Max splitting length	m	20		15		15			
	Max height difference O.U.-I.U. / I.U.-O.U.	m	15		15		15			
	Splitting length without additional charge	m	10		15		15			
	Additional charge	g/m	16		0		0			
	Refrigerant control system				Electronic expansion valve					
Electrical data	Compressor	type	Rotary - DC Inverter							
	Power supply	Ph-V-Hz	1ph-230V-50Hz				3ph-400V-50Hz			
	Maximum current	Heating Cooling	A	10.00 11.00	13.50 20.00	15.00 22.00	17.80 25.60	8.00 11.50	8.50 11.50	
Power cable (recommended)	type	3x2.5 mm <sup>2</sup>		3x4 mm <sup>2</sup>		5x2.5 mm <sup>2</sup>				
Product specifications	Fan	Type	DC Inverter							
		Air flow	m <sup>3</sup> /h	3200	3300	3300	5015	5015	5015	
	Sound power level	dB(A)	62		67		68		68	
	Sound pressure level	dB(A)	52		55		57		58	
	Dimensions	LxDxH	mm	975x339x702	982x427x787	982x427x787	940x460x820	940x460x820	940x460x820	
Weight	Net	kg	55	82	82	104	110	110		
Indoor unit model				MHNGS 400-600 Z	MHNGS 800-1000 Z	MHNGS 1200-1600 Z	MHSGS 1200-1600 Z			
Operating range	Delivery water temperature	Heating	°C	20~60		20~60		20~60		
		Cooling		7~25		7~25		7~25		
	DHW temperature (tank)			40~80		40~80		40~80		
Hydraulic data	Water/freon heat exchanger	Type	Braze-welded plates							
	Circulation pump	Brand	Shinwoo							
	Water connections	Type	Threaded							
		Dimension	Inches	1" M BSP	1" M BSP	1" M BSP	1" M BSP	1" M BSP	1" M BSP	
	Operating pressure	Min/Max	bar	0.5/2.5	0.5/2.5	0.5/2.5	0.5/2.5	0.5/2.5		
Expansion vessel	Volume	L	10		10		10			
	Pre-load	bar	1		1		1			
Electrical data	Power supply	Ph-V-Hz	1ph-230V-50Hz				3ph-400V-50Hz			
	Electric integration	kW	3.00		6.00		6.00			
	Electrical absorption	Max	3.10		6.10		6.10			
	Power cable (recommended)	type	3x2.5 mm <sup>2</sup>		3x6 mm <sup>2</sup>		3x6 mm <sup>2</sup>		5x4 mm <sup>2</sup>	
Product specifications	Sound power level	dB(A)	42		42		42			
	Sound pressure level	dB(A)	29		29		29			
	Dimensions	LxDxH	mm	460x318x860		460x318x860		460x318x860		
	Weight	Net	kg	58		58		60		
	Control (included)				On-board machine control					
Built-in remote control				Wifi, Modbus						

GENERAL NOTE: The data contained above refer to the following standards: EN 14511:2018; EN 14825:2019; EN50564:2011; EN12102-1:2018; EN12102-2:2019; (EU)No:811:2013; (EU)No:813:2013; OJ 2014/C 207/02:2014.

## SPLIT MODEL WITH HYDROMODULE - SYSTEM DIAGRAM



NOTES: 1. Expansion vessel referred to the system circuit. Check that what is included in the unit is sufficient for the purpose. 2. Plant side circulator. 3. Circulator on the domestic water side.

NEW



### DMG-HP-Z control

Group control, connects up to four Monobloc R32 or Split Series units, even combined with each other. Main functions:

- > Silent mode;
- > quick hot water;
- > Holiday mode;
- > climate;
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- > weekly timer.

