

HYDROLUTION EZY IDROSPLIT WITH PRODUCTION OF DOMESTIC HOT WATER



HEATING / COOLING / DOMESTIC HOT WATER

EZY IDROSPLIT ALL IN ONE R290 E R32, EZY FLEXIBLE



■ 6 kW ■ 8 kW

Idrosplit R290

Idrosplit all in one for heating, cooling and producing ACS. Heating flow water temperature up to 75°C.



■ 10 kW

Idrosplit R32

Idrosplit all in one for heating, cooling and producing DHW (10 kW, integrated 180 litre tank).



■ 16 kW

Flexible

Monobloc unit that can be installed as a single unit or in cascade up to 8 modules, with dedicated on-site systems.

Gas Free

All units are gas free: the refrigeration circuit is in the external unit, no refrigerant in the internal unit and inside the rooms, only water.

75°C

constant heating flow temperature down to -25°C
-25°C (R290)

A+++

Energy Class in heating at **35°C**

A++

Energy Class in heating at **55°C**

INTEGRATED SAFETY DEVICES

kg 0.85 maximum refrigerant charge R290 (8kW)

59db

max. sound power, silence guaranteed (6kW, R290)

5.14

Maximum COP (6kW, R290)

4.09

Maximum EER (8kW, R290)

EZY IDROSPLIT ALL IN ONE CONFIGURATION

Hydrolution EZY Idrosplit R290 is a heat pump system for heating, cooling and domestic hot water production with a tank integrated into the internal module. A high-performance product, made with the latest generation technologies and construction features to ensure maximum operating efficiency.

**GWP
0,02**

R290

6 and 8 kW
models

HYDROLUTION EZY IDROSPLIT ALL IN ONE R290 COMBINATIONS

The EZY Idrosplit All in One R290 combination provides the complete solution for all heating, cooling and domestic hot water needs. Each EZY Idrosplit All in One combination consists of a monobloc FDCM outdoor unit and an HMM module, containing: integrated DHW tank, circulation pump, electric resistance, expansion vessel and valves.

The advantages of the EZY Idrosplit All in One solution:

- **HEATING, COOLING AND HOT WATER**
with a single internal HMM module;
- **EASY INSTALLATION AND OPERATION**, the indoor and outdoor units are compact and make installation as simple as possible;
- **GAS FREE**: hydraulic connection between external and internal units, the refrigeration circuit is confined to the external unit only;
- ideal for residential use in apartments and small homes; three adjustable control levels (economic, normal, luxury) for the production of DHW;
- **CAPACITIES AVAILABLE**
6 kW - R290
8 kW - R290



EZY IDROSPLIT ALL IN ONE CONFIGURATION

The wide range of Mitsubishi Heavy Industries products offers the right heat pump to meet every need.

EZY Idrosplit All in One is a complete solution, suitable for renovations and new constructions.

HYDROLUTION EZY IDROSPLIT ALL IN ONE R32 COMBINATIONS

La combinazione EZY Idrosplit All in One R32 fornisce la soluzione completa per tutte le esigenze di riscaldamento, raffrescamento e acqua calda sanitaria. Ogni combinazione EZY Idrosplit All in One si compone di un'unità esterna monoblocco FDCM ed un modulo HMM, avente al suo interno: serbatoio di ACS integrato, pompa di circolazione, resistenza elettrica, vaso d'espansione e valvolame.

The advantages of the EZY Idrosplit All in One solution:

- **HEATING, COOLING AND HOT WATER**
with a single internal HMM module;
- **EASY INSTALLATION AND OPERATION**, the indoor and outdoor units are compact and make installation as simple as possible;
- **GAS FREE**: hydraulic connection between external and internal units, the refrigeration circuit is confined to the external unit only;
- ideal for residential use in apartments and small homes; three adjustable control levels (economic, normal, luxury) for the production of DHW;

■ **CAPACITIES AVAILABLE**

10 kW - R32



**GWP
675**

R32
10 kW
model



HMM MODULE

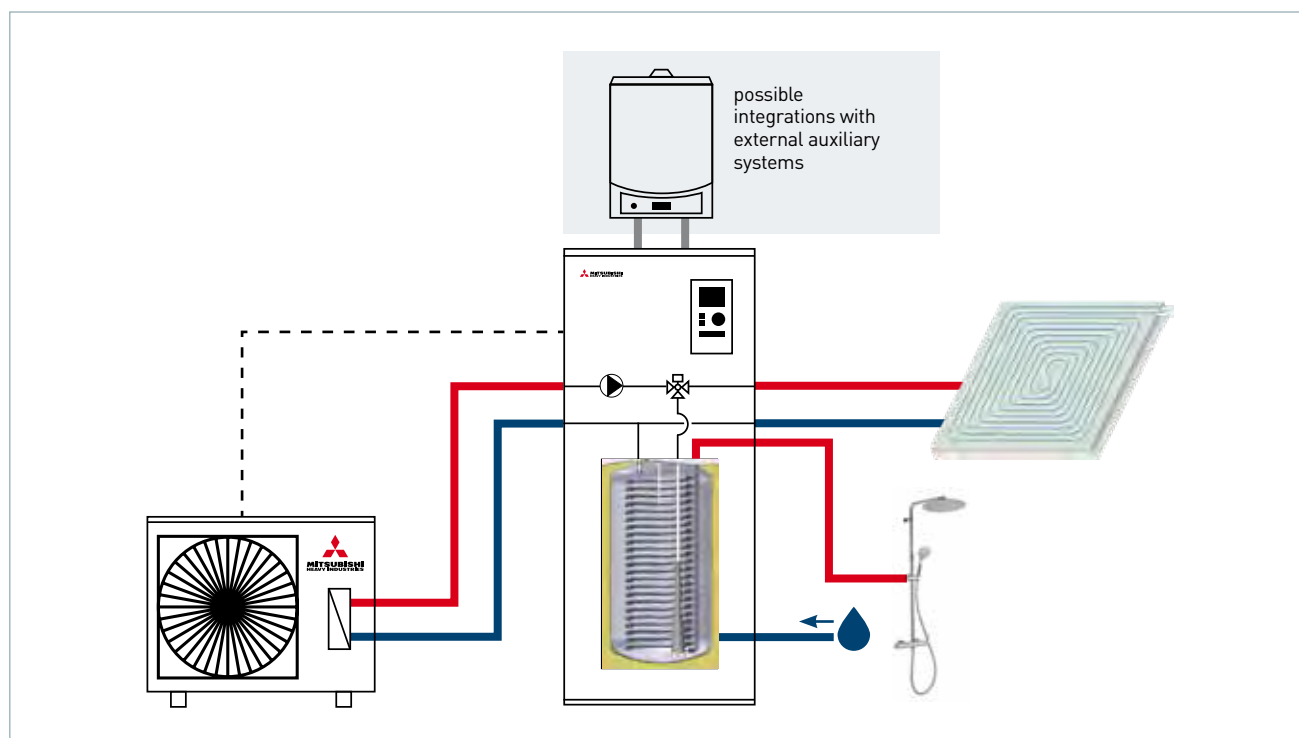
La soluzione EZY Idrosplit All in One di HYDROLUTION consente di soddisfare, con una soluzione plug-in, le esigenze principali di riscaldamento, raffrescamento e produzione di ACS di un'abitazione.

MAIN ADVANTAGES OF HMM MODULE

- absence of refrigerant gas in the machine and consequently in the home;
- integrated control on the machine which facilitates the management and installation of the system;
- circolatore integrato a servizio del riscaldamento e raffrescamento;
- integrated 180 liter tank for the production of DHW;
- possibility of single-phase or three-phase power supply via special terminal block.



OPERATING DIAGRAM



HEATING / COOLING / DOMESTIC HOT WATER

HYDROLUTION EZY SYSTEM - TECHNICAL DATA

EZY IDROSPLIT R290 E R32

Outdoor unit model				FDCM60VNX-P	FDCM71VNX-P	FDCM100VNX-W
Heating	Rated power	A7//W35	kW	5.50	8.30	10.00 [4.50~11.00]
	Power input			1.07	1.85	2.33
	Performance coefficient			5.14	4.49	4.29
	Rated power	A7//W45	kW	5.50	8.00	10.00 [6.40~11.00]
	Power input			1.46	2.11	2.90
	Performance coefficient			3.77	3.79	3.45
Cooling	Rated power	A35//W18	kW	7.50	9.00	11.00 [4.00~11.00]
	Power input			2.05	2.20	2.97
	Energy efficiency			3.66	4.09	3.70
	Rated power	A35//W7	kW	5.30	7.00	8.50 [3.70~9.50]
	Power input			1.75	2.25	2.98
	Energy efficiency			3.03	3.11	2.85
Seasonal data (Heating)	Design load (Pdesignh) @ -10°C	35/55	kW	tbd	tbd	8/8
	Seasonal energy efficiency (ηs)		%	tbd	tbd	191/136
	Energy efficiency class		-	tbd	tbd	A+++/A++
	Annual energy consumption		kWh/y	tbd	tbd	3815/5539
Operating range	Outdoor air temperature	Heating & DHW	°C	-25~43	-20~43	-25~43
		Cooling		15~43		
Refrigerant circuit data	Refrigerant type (GWP)			R290 [0.02]		R32 [675]
	Q.ty of precharge (tons CO2)		kg (t)	0.65 [0]	0.85 [0]	2.0 [1.350]
	Refrigerant control system			Electronic expansion valve		
	Compressor			type	Twin rotary - DC Inverter	
Hydraulic data	Water/freon heat exchanger		type	Braze-welded plates		
	Water connections	Size	inch	1" M (DN25)		
	Operating pressure (system)	Max	bar	3		
Electrical data	Power supply		Ph-V-Hz	1ph-230V-50Hz		
	Maximum current		A	13.00	16.00	21.00
	Power cable (recommended)		type	3x4 mm²		3x6 mm²
Product specifications	Fan	Type	q.ty	DC Inverter		
		Air flow	m³/h	2520	3000	3180
	Sound power level (max)		dB(A)	tbd	tbd	60
	Sound pressure level (a 1 m)		dB(A)	41	49	45
	Dimensions	LxDxH	mm	1160x440x916		1160x440x1120
	Weight	Net	kg	82	90	104
Indoor unit model				HMM100	HMM100	HMM100
Operating range	Delivery water temperature	Heating & DHW	°C	25~75		25~60
		Cooling		5~25		7~25
	DHW temperature (tank)	Max		80		
Hydraulic data	DHW tank capacity		L	180		
	Circulation pump			Included		
	Water connections for O.U.	Size	mm	22		
	Operating pressure (system)	Max	bar	10		
	Expansion vessel	Volume	L	10		
Precharge		bar	0.5			
Electrical data	Power supply		Ph-V-Hz	1ph-230V-50Hz / 3ph-400V-50Hz		
	Electrical integration	Power supply 230V /400V	kW	6.00 / 9.00		
	Power input (Max)		A	26.00 / 13.00		
	Power cable (recommended)		type	3x6 mm² / 5x4 mm²		
Product specifications	Sound power level		dB(A)	-		
	Dimensions	LxDxH	mm	600x610x1670		
	Weight	Net	kg	150		
	Control (included)			On board machine		
	Remote control via Modbus (optional)			MODBUS40M		

The above data refers 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.