Total-One

COOLING + HEATING + DOMESTIC HOT WATER + HEAT RECOVERY

Total-One revolutionises the world of air conditioning by adding an indoor unit with a domestic hot water tank to the usual features of expansion systems. The production of domestic hot water, during summer operation, utilises the heat that would otherwise be dispersed outside.

Innovative
Total-One can operate in total energy recovery during the summer, thanks to the unique technology of the new series of outdoor units.

Effective
Guaranteed operation from -15° C and up to +42° C outside temperature, with domestic hot water up to 55° C.

Flexible
Compatible with all models of multi-split indoor units. Depending on the model used, up to three different indoor units can be connected in addition to the domestic hot water storage tank.

Smart
The Total-One system can be connected to smart grid systems for intelligent energy flow management, or be directly connected to a photovoltaic system.

Efficient
Energy efficiency class A+ in domestic hot water production mode under average climate conditions with L draw-off profile.

Sustainable
Energy recovery during summer operation reduces energy consumption and increases environmental sustainability.

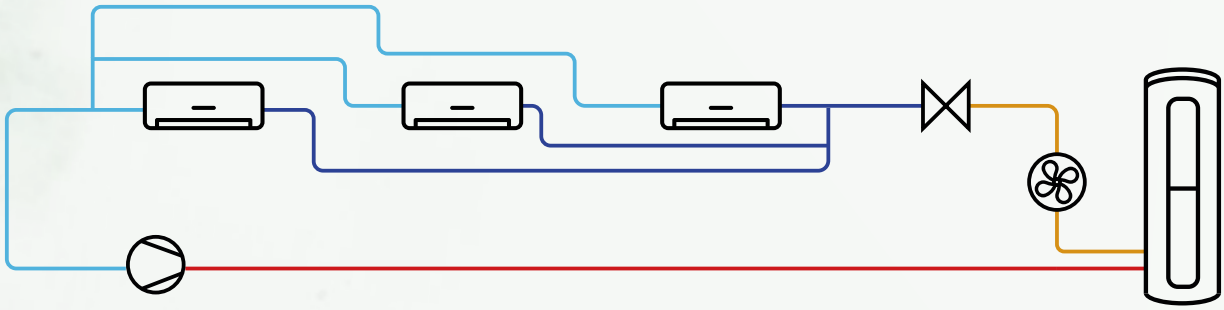
Intelligent Energy Recovery System

During summer operation, the outdoor unit of a normal air-conditioning system dissipates heat from the indoor environment to the outside to cool it. The possibility of harnessing this 'waste' energy has always been an important issue for air-conditioning operators.

Finally, MAXA, with the **Total-One** system, allows residential or small commercial installations to take advantage of the great opportunity represented by summer energy recovery.

The **Total-One** system, through the exclusive combination of an innovative refrigeration scheme and an advanced electronic control, makes it possible to activate not only the usual operating modes of all air conditioners, but also domestic hot water production modes with a focus on summer condensation heat recovery.

In short, domestic hot water can be produced free of charge by exploiting the heat that would otherwise be dissipated outside.



Operating Principle

When the indoor units are switched to summer mode and the refrigerant reaches a suitable temperature, the internal control system sends the hot gas to the heat exchanger in the vitrified steel tank.

At this point, the hot gas completes its condensation process by releasing a large amount of energy to the water inside the tank.

It must be noted that this heat exchange technology is extremely advanced and, above all, extremely safe regarding the quality of the water contained in the tank.

When the heat to be dissipated is more than the tank needs, the system sends the excess energy to the outdoor unit to finish the gas condensation phase.

When the domestic hot water tank has reached the desired temperature, all condensation heat is dissipated to the outside as in a conventional air conditioner.
If the summer air-conditioning system is not active, instead, but there is a need to heat the domestic hot water tank, then the outdoor unit starts to operate in heating mode for the sole purpose of restoring the temperature inside the tank.

Outdoor unit

+

Indoor units

+

DHW cylinder

Matchable Internal Units Range

TREDIS
TFL26R1, TFL35R1, TFL53R1

LYS
LDL26R3, LDL35R3, LDL53R3

CONSOLE
CONS35R

CASSETTE
CCST26R1, CCST35R1, CCST53R1

DUCT
DUCT26R2, DUCT35R2, DUCT53R2

FLOOR CEILING
SPV53R

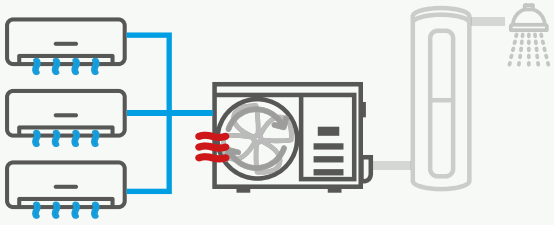
High-efficiency heat exchange interface, accelerates **water heating**

Super-resistant tank, designed and built to withstand rigorous tests with very high pressures

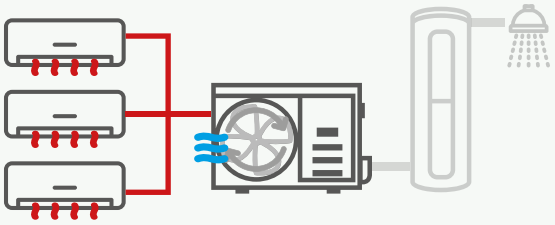
High-efficiency condenser, made of flat tube with a high number of turns

Condenser with parallel connections, **high-efficiency** heat exchange

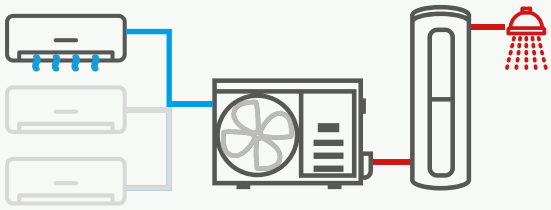
6 Possible Operating Modes:
revolutionises the world of air conditioning



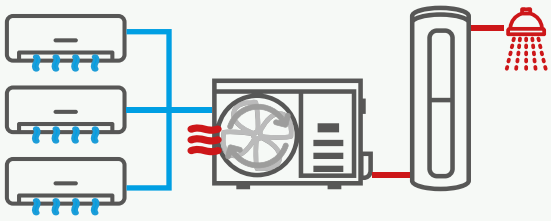
Air conditioning only



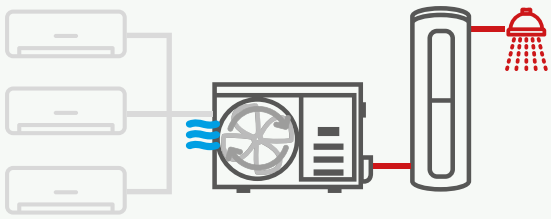
Heating only



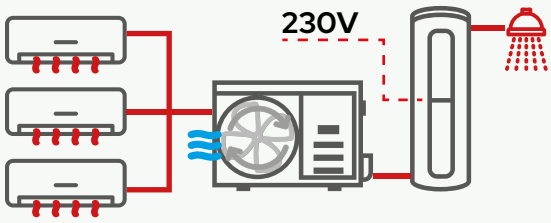
Air conditioning with total recovery



Air conditioning with partial recovery



DHW production only



Heating and DHW production

Air conditioning only
High-quality summer cooling is always guaranteed, even in the absence of the domestic hot water cylinder.

Heating only
During winter heating, the connected indoor units ensure comfortable environments, even if the domestic hot water cylinder is not connected.

Air conditioning with total recovery
When the thermal energy removed from the indoor environments can be entirely transferred to the hot water, the external fan shuts off, and the system operates in full energy recovery mode.

Air conditioning with partial recovery
When all indoor units operate simultaneously, part of the energy heats the domestic hot water. The excess energy is dissipated by the outdoor unit.

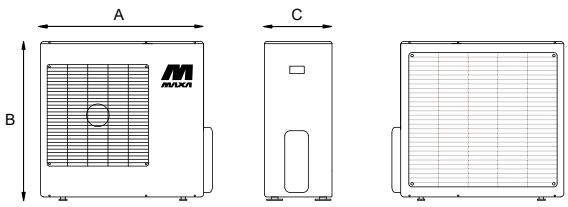
DHW production only
Domestic hot water production is guaranteed even if no indoor unit is connected or when no indoor unit is running.

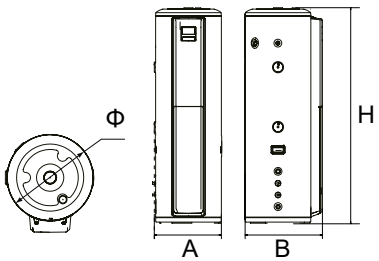
Heating and DHW production
During winter heating, the production of domestic hot water can, optionally, be prioritised over heating, or be secondary.

Outdoor Units & DHW Boilers

MULTISPLIT WITH HEAT RECOVERY

* AVAILABLE FROM JUNE 2025





		NEW EXT3M53HR*	EXT4M80HR
Cooling capacity	kW	5,2	7,9
	BTU/h	18.000	27.000
Power input	kW	1,40	2,45
Absorbed current	A	6,20	11
S.E.E.R.		6,1	6,3
Heating capacity	kW	5,2	8,2
	BTU/h	18.000	28.000
Power input	kW	1,30	2,2
Absorbed current	A	5,9	10,5
S.C.O.P. Average		4,0	4,1
Max indoor units		2 + 1	3 + 1
Compressor		Rotary Inverter	Rotary Inverter
Power supply	V~, Ph, Hz	230, 1, 50	230, 1, 50
Air flow	m³/h	2100	4000
Sound power	dB(A)	65	69
Outdoor temp. *	°C (raff)	-15~50	-15~50
	°C (risc)	-15~24	-15~24
Refrigerant q.ty	R32/g	1570	1,8
Liquid pipe / gas	inch	3x1/4" / 3x3/8"	3x1/4" / 2x3/8"+1x1/2"
Dimensions AxBxC	mm	805x554x333	946x410x810
Kg	kg	36,2	64,3

	TNK100HR	TNK190HR
Operating range	Da -15°C a + 43°C	Da -15°C a + 43°C
Refrigerant connections (mm/")	6,35 + 9,52	6,35 + 9,52 / 1/4" + 3/8"
DHW set point temperature (with heating element enabled) (°C)	38 ~ 55 (70)	38 ~ 55 (70)
Tank corrosion protection	Magnesium anode	Magnesium anode
Materiale di costruzione	Enamelled steel	Enamelled steel
Net internal volume Litres	100	190
Power supply (Ph-V-Hz)	1ph/220~240V/50Hz	1ph/220~240V/50Hz
DHW performance according to EN 16147:2017		
Load profile	M	L
Nominal power dhwt (kW)	2,6	3,9
COP dhw	3,4	3,4
DHW test set point (°C)	52	52
Max. drawdown with DHW = 40 °C	120 L	240 L
Energy class	A+	A+
Standby consumption (W)	50	50
Maximum tank pressure (bar)	10	10
Protection system	Sacrificial magnesium anode	Sacrificial magnesium anode
Type of material	Vitrified steel	Vitrified steel
Integration mode	2kW electric heater	2kW electric heater
Data in ACS production only		
Power heating water *	3,0	4,0
COP *	3,9	3,9
Dimensions		
Dimensions (H*A*B) (mm)	1.060*500*556	1660*504*574
Net weight (kg)	45	70

*15°C air inlet, 12°C air outlet, 15°C water inlet, 45°C water outlet

Preliminary Data

Tredis

Wall-mounted internal unit with DC fan, Wi-Fi

2,6 kW÷6,3 kW

MULTISPLIT

		TFL26R1	TFL35R1	TFL53R1	TFL70R1
Cooling capacity	kW	2,64	3,52	5,28	6,27
	BTU/h	9.000	12.000	18.000	24.000
Power input	kW	0,74	1,08	1,55	1,94
Absorbed current	A	4,95	5,10	6,7	10,9
Heating capacity	kW	2,93	3,81	5,42	6,71
	BTU/h	10.000	13.000	18.500	22.900
Power input	kW	0,78	1,02	1,46	1,80
Absorbed current	A	3,5	3,66	6,5	9,3
Power supply	V~,Ph,Hz	230, 1, 50			
Air flow	m³/h	416/309/230	584/477/395	730/500/420	1020/830/640
Sound pressure	dB(A)	39/32/26	39,5/33/25	43/33,5/28	47/41,5/30,5
Gas pipe (1)	mm / inch	Φ9.53(3/8")	Φ9.53(3/8")	Φ12.7(1/2")	Φ15,9(5/8")
Liquid pipe	mm / inch	Φ6.35(1/4")	Φ6.35(1/4")	Φ6.35(1/4")	Φ9.53(3/8")
Dimensions AxBxC	mm	722x290x187	802x297x189	965x319x215	1.080x335x226
Kg	kg	7,3	8,6	10,9	13,7

* Operating limits
Cooling test conditions: in 27°C d.b. / 19,5°C w.b. - out 35°C d.b. / 24°C w.b. - Heating test conditions: in 20°C d.b. - out 7°C d.b. / 6°C w.b.

Lys R3

Wall-mounted internal unit with DC fan, Wi-Fi

2,6 kW÷5,8 kW

MULTISPLIT

		LDL26R3	LDL35R3	LDL53R3	LDL70R3
Cooling capacity	kW	2,64	3,22	5,27	5,86
	BTU/h	9.000	12.000	18.000	24.000
Power input	kW	0,80	0,99	1,55	1,80
Absorbed current	A	3,48	4,3	6,7	7,86
Heating capacity	kW	2,49	3,30	4,97	6,00
	BTU/h	8.500	13.000	19.000	25.000
Power input	kW	0,67	0,88	1,29	1,60
Absorbed current	A	2,9	3,8	5,64	6,99
Power supply	V~,Ph,Hz	230, 1, 50			
Air flow	m³/h	435/333/259	530/430/310	840/680/540	980/817/662
Sound pressure	dB(A)	37/32/25	39,5/35,5/25	43,5/36/26	45/40,5/36
Gas pipe (1)	mm / inch	Φ9.53(3/8")	Φ9.53(3/8")	Φ12.7(1/2")	Φ15,9(5/8")
Liquid pipe	mm / inch	Φ6.35(1/4")	Φ6.35(1/4")	Φ6.35(1/4")	Φ9.53(3/8")
Dimensions AxBxC	mm	715x285x194	805x285x194	957x302x213	1.040x327x220
Kg	kg	6,7	7,3	10	12,3

* Operating limits
(1) Please refer to the table of indoor units for the piping section
Cooling test conditions: in 27°C d.b. / 19,5°C w.b. - out 35°C d.b. / 24°C w.b. - Heating test conditions: in 20°C d.b. - out 7°C d.b. / 6°C w.b.
For the consumption of the system refer to the label of the outdoor

Cassette

Cassette-type internal unit with DC fan

2,6 kW÷5,3 kW

MULTISPLIT

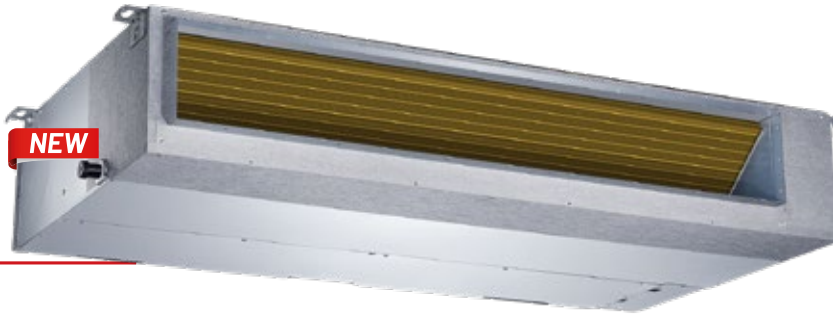
		CCST26R1	CCST35R1	CCST53R1
Cooling capacity	kW	2,64	3,51	5,27
	BTU/h	9.000	12.000	18.000
Absorbed current *	A	0,50	4,45	7,2
Heating capacity	kW	2,93	3,80	5,57
	BTU/h	10.000	13.000	17.870
Absorbed current *	A	0,50	4,73	6,8
Power supply	V~, Ph, Hz		230, 1, 50	
Air flow	m³/h	580/500/300	620x510x420	720x620x500
Sound pressure	dB(A)	37/35,5,/33	42/38,5/31,5	44/41/31,5
Gas pipe	mm / inch	Φ9,53(3/8")	Φ9,53(3/8")	Φ12,7(1/2")
Liquid pipe	mm / inch	Φ6,35(1/4")	Φ6,35(1/4")	Φ6,35(1/4")
Frame dimensions DxExF	mm	570x570x245	647x647x50	647x647x50
Panel dimensions AxBxC	mm	647x647x50	570x570x260	570x570x260
Kg	kg	14,5	16,3	16,3

* Specific only for the indoor unit
For the consumption of the system refer to the label of the outdoor
Cooling test conditions: in 27°C d.b. / 19,5°C w.b. - out 35°C d.b. / 24°C w.b. - Heating test conditions: in 20°C d.b. - out 7°C d.b. / 6°C w.b.

Duct

Ductable internal unit with DC fan, Wi-Fi - Total-One

2,1 kW÷5,3 kW



MULTISPLIT

		DUCT20R2	DUCT26R2	DUCT35R2	DUCT53R2
Cooling capacity	kW	2,05	2,63	3,51	5,27
	BTU/h	7.000	9.000	12.000	18.000
Absorbed current *	A	1	1	1	0,66
Heating capacity	kW	2,34	2,93	3,81	6,00
	BTU/h	8.000	10.000	13.000	20.500
Absorbed current *	V~, Ph, Hz	230, 1, 50	230, 1, 50	230, 1, 50	230, 1, 50
Power supply	m³/h	620/540/450	620/540/450	660/570/470	900/780/650
Air flow	Pa	25	25	25	25
Ext. Static pressure	Pa	0 - 80	0 - 80	0 - 100	0 - 160
Sound pressure	dB(A)	54	54	52	53
Gas pipe	mm / inch	Φ9.53(3/8")	Φ9.53(3/8")	Φ9.53(3/8")	Φ12.7(1/2")
Liquid pipe	mm / inch	Φ6.35(1/4")	Φ6.35(1/4")	Φ6.35(1/4")	Φ6.35(1/4")
Dimensions AxBxC	mm	700x200x506	700x200x506	700x200x506	700x245x750
Kg	kg	16,6	16,6	16,6	24,4

(*) Value referred to the sum of the absorptions external unit + internal unit (separate supplies)
For the consumption of the system refer to the label of the outdoor
Cooling test conditions: in 27°C d.b. / 19,5°C w.b. - out 35°C d.b. / 24°C w.b. - Heating test conditions: in 20°C d.b. - out 7°C d.b. / 6°C w.b.

Console

Console-type internal unit with DC fan

3,5 kW

MULTISPLIT

		CONS35R
Cooling capacity	kW	3,52
	BTU/h	12.000
Absorbed current	A	4,52
Heating capacity	kW	3,81
	BTU/h	13.000
Absorbed current	A	4,43
Power supply	V~, Ph, Hz	230, 1, 50
Air flow	m³/h	650/580/490
Sound pressure	dB(A)	37/34/27
Gas pipe	mm / inch	Φ9,53(3/8")
Liquid pipe	mm / inch	Φ6,35(1/4")
Dimensions AxBxC	mm	794x621x206
Kg	kg	14,9

For the consumption of the system refer to the label of the outdoor
Cooling test conditions: in 27°C d.b. / 19,5°C w.b. - out 35°C d.b. / 24°C w.b. - Heating test conditions: in 20°C d.b. - out 7°C d.b. / 6°C w.b.

Floor Ceiling

Ceiling/floor-type internal unit with DC fan

5,2 kW

MULTISPLIT

		SPV53R
Cooling capacity	kW	5,27
	BTU/h	18.000
Absorbed current	A	6,0
Heating capacity	kW	5,57
	BTU/h	19.000
Absorbed current	A	6,6
Power supply	V~, Ph, Hz	230, 1, 50
Air flow	m³/h	958/839/723
Sound pressure	dB(A)	44/41/37
Gas pipe	mm / inch	Φ12,7(1/2")
Liquid pipe	mm / inch	Φ6,35(1/4")
Dimensions AxBxC	mm	1.068x675x235
Kg	kg	28

For the consumption of the system refer to the label of the outdoor
Cooling test conditions: in 27°C d.b. / 19,5°C w.b. - out 35°C d.b. / 24°C w.b. - Heating test conditions: in 20°C d.b. - out 7°C d.b. / 6°C w.b.