



Access
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ADVANTAGES OF ISÉA® SR (WITHOUT CONTROL SYSTEM)

- Reduced sound level.
- Factory-fitted valve kit option.

ADVANTAGES OF THE CONTROLLED ISÉA®

- Onboard control unit.
- Master/slave operation: Iséa ME.
- Modbus CMS communication: Iséa MB.
- Factory-fitted valve kit option.

RANGE

- Sensitive cooling capacity from 1 to 8.3 kW.
- 3 versions: 2 tubes, 2 tubes + 2 wires, 4 tubes.

DESIGNATION

Iséa®	SR	2T	600 x 600
Product name	SR: without control unit ME: master/slave MB: Modbus	2T: 2 tubes 2T + 2 F: 2 tubes, 2 wires 4T: 4 tubes	Dimension (mm)

APPLICATION/USE

- Climate control for service sector premises: shopping centres, offices, hotels, etc.

CONSTRUCTION/COMPOSITION

- **Casing:**
 - Galvanised sheet steel body with internal 10 mm thermal insulation and a condensation barrier on the external wall.
 - Fresh air nozzle possible with accessory.
- **Chilled water coil:**
 - Copper tubes, aluminium blades.
 - ABS condensate tray. Fire resistance class B1 according to norm DIN 4102.
 - Auxiliary condensate tray for control valve.
- **Fan:**
 - Centrifugal fan with backward-curved blades, statically and dynamically balanced.
 - Direct drive via multi-speed motor.
- **Condensate drain pump:**
 - Lifting height: 0.65 m.
 - Controlled electronically by a float system.
- **Supply air/return grille:**
 - Grilles in composite materials.
 - G2 return air filter (in accessories).
- **Electric coil:**
 - Comprising an electric pin in the coil's tubes.
 - From 1.5 kW to 3 kW.

SPECIFICATION TEXT

- Available on www.france-air.com, Espace Pro area.

ISÉA®

4-way chilled water unit with standard motor, with or without control system

TYPE	MOTOR	DISASSEMBLY	OPERATION	COMMUNICATION
Four directions	Standard	Easy	2T, 2T + 2 wires, 4T	CMS/BMS Modbus RS 485

Espace Pro

Order online at
www.espacepro.france-air.com



TECHNICAL DESCRIPTION OF THE CONTROL SYSTEM

- **Control functions:**
 - 4 operating modes (ventilation/cooling/heating/automatic).
 - Programme desired temperature.
 - Programme fan speed.
 - On/off through auxiliary contact (clock, window contact, etc.).
 - Daily programming (on/off) with the THM-REG B.
 - Water valve on/off control.
 - Manual summer/winter switch.
 - For 4T version, possibility of an automatic summer/winter switch with +2 °C neutral area.
 - For 2T version, possibility of an automatic summer/winter switch with a T2 sensor (in accessories).
- **Master/slave operation (up to 10 units for the ME version and 20 units for the MB version).**
- **Control via Modbus RS 485 CMS (MB version only).**
- **Cassette unit control (regulated version).**

Choose:



Thermostat THM-REG B
(for MB or ME version)

or



Infrared remote control
(for MB version)

or



THM-ME
(for ME version)

See p. 947.

TECHNICAL DESCRIPTION

• Technical characteristics

- 2-tube installation

The indicated specifications refer to the following operating conditions (Eurovent conditions):

Cooling (summer):

Air temperature: + 27°C (DB*) + 19°C (WB*)
 Water temperature: +7°C (inlet) +12°C (outlet)

*DB: dry bulb - WB: wet bulb

Heating (winter):

Air temperature: +20°C (inlet)
 Water temperature: +45°C (inlet) +40°C (outlet)



Model	02			12			22			32			42			52			62		
Speed	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3
Air flow rate (m³/h)	310	420	610	310	420	520	320	500	710	430	610	880	630	820	1140	710	970	1500	710	1280	1820
Total cooling capacity (E)* (kW)	1,25	1,60	1,92	1,82	2,31	2,64	2,23	3,30	4,26	2,91	3,82	4,93	4,18	4,86	6,08	5,27	6,72	9,39	5,27	8,36	10,93
Sensitive cooling capacity (E)* (kW)	0,99	1,29	1,58	1,33	1,72	2,00	1,55	2,35	3,11	2,05	2,75	3,65	3,00	3,53	4,51	3,42	4,42	6,36	3,67	6,00	8,08
Heating capacity (E) (kW)	1,38	1,80	2,24	1,85	2,42	2,80	2,12	3,28	4,37	2,85	3,85	5,15	4,27	5,03	6,50	4,92	6,40	9,23	5,12	8,55	11,72
ΔWater pressure drop cooling (E) (kPa)	4,5	7,0	10,0	4,9	7,6	9,7	6,4	13,0	20,9	7,5	12,4	19,7	10,9	14,3	21,6	9,4	14,7	26,9	9,4	21,8	35,6
ΔWater pressure drop heating (E) (kPa)	4,4	7,2	10,7	4,3	6,9	9,0	2,8	6,1	10,2	6,2	10,6	17,8	7,0	9,4	15,0	7,1	11,4	22,0	7,6	19,2	33,8
Sound power Lw (E) (dBA)	33	40	49	33	40	45	33	45	53	41	49	59	33	40	48	34	40	53	34	48	58
Sound pressure Lp (dBA)	24	31	40	24	31	36	24	36	44	32	40	50	24	31	39	25	31	44	25	39	49
Motor input power (E) (W)	25	32	57	25	32	44	25	44	68	32	57	90	33	48	77	42	63	120	42	95	170
Motor input current (E) (A)	0,11	0,15	0,27	0,11	0,15	0,20	0,11	0,20	0,32	0,15	0,27	0,45	0,15	0,23	0,36	0,18	0,28	0,53	0,18	0,42	0,74
Coil water capacity (l)	0,8	0,8	0,8	1,4	1,4	1,4	2,1	2,1	2,1	2,1	2,1	2,1	3	3	3	4	4	4	4	4	4
Dimensions (mm)	575 x 575 x 275			575 x 575 x 275			575 x 575 x 275			575 x 575 x 275			820 x 820 x 303			820 x 820 x 303			820 x 820 x 303		

- 4-tube installation

The indicated specifications refer to the following operating conditions (Eurovent conditions):

Cooling (summer):

Air temperature: + 27°C (DB*) + 19°C (WB*)
 Water temperature: +7°C (inlet) +12°C (outlet)

*DB: dry bulb - WB: wet bulb

Heating (winter):

Air temperature: +20°C (inlet)
 Water temperature: +65°C (inlet) +55°C (outlet)



Model	04			14			24			34			44			54			64		
Speed	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3
Air flow rate (m³/h)	310	420	610	310	420	520	320	500	710	430	610	880	630	820	1140	710	970	1500	710	1280	1820
Total cooling capacity (E)* (kW)	1,49	1,93	2,27	1,83	2,33	2,66	1,83	2,61	3,27	2,33	2,96	3,72	4,11	4,98	6,26	4,48	5,60	7,59	4,48	6,84	8,72
Sensitive cooling capacity (E)* (kW)	1,13	1,52	1,84	1,32	1,68	1,94	1,32	1,94	2,49	1,72	2,23	2,88	2,93	3,60	4,61	3,21	4,09	5,71	3,21	5,09	6,67
ΔWater pressure drop cooling (E)* (kPa)	6,0	10,0	13,5	4,6	6,9	8,8	4,6	8,8	13,4	7,2	11,2	17,0	8,8	12,5	18,9	10,3	15,4	26,9	10,3	22,1	34,7
Heating capacity (E) (kW)	1,72	2,23	2,66	2,13	2,66	3,04	2,13	3,04	3,86	2,61	3,33	4,19	5,21	6,33	8,02	5,69	7,15	9,66	5,69	8,80	11,16
ΔWater pressure drop heating (E)* (kPa)	5,2	8,3	11,4	4,6	6,8	8,7	4,6	8,7	13,3	6,4	9,9	15,0	7,9	11,2	17,2	9,3	14,0	24,0	9,3	20,3	31,2
Sound power Lw (E)* (dBA)	33	40	49	33	40	45	33	45	53	41	49	59	33	40	48	34	40	53	34	48	58
Sound pressure Lp (dBA)	24	31	40	24	31	36	24	36	44	32	40	50	24	31	39	25	31	44	25	39	49
Motor input power (E) (W)	25	32	57	25	32	44	25	44	68	32	57	90	33	48	77	42	63	120	42	95	170
Motor input current (E) (A)	0,11	0,15	0,27	0,11	0,15	0,20	0,11	0,20	0,32	0,15	0,27	0,45	0,15	0,23	0,36	0,18	0,28	0,53	0,18	0,42	0,74
Cooling coil water capacity (l)	1,0	1,0	1,0	1,4	1,4	1,4	1,4	1,4	1,4	1,4	1,4	1,4	3,0	3,0	3,0	3,0	3,0	3,0	3,0	3,0	3,0
Heating coil water capacity (l)	0,6	0,6	0,6	0,7	0,7	0,7	0,7	0,7	0,7	0,7	0,7	0,7	1,4	1,4	1,4	1,4	1,4	1,4	1,4	1,4	1,4
Dimensions (mm)	575 x 575 x 275			575 x 575 x 275			575 x 575 x 275			575 x 575 x 275			820 x 820 x 303			820 x 820 x 303			820 x 820 x 303		

Condensate pump power consumption: 8 W.

The sound pressure level is below a sound power of 9 dB(A) for a space of 100 m³ and a reverberation time of 0.5 sec., at 1 m for a directivity of 2.

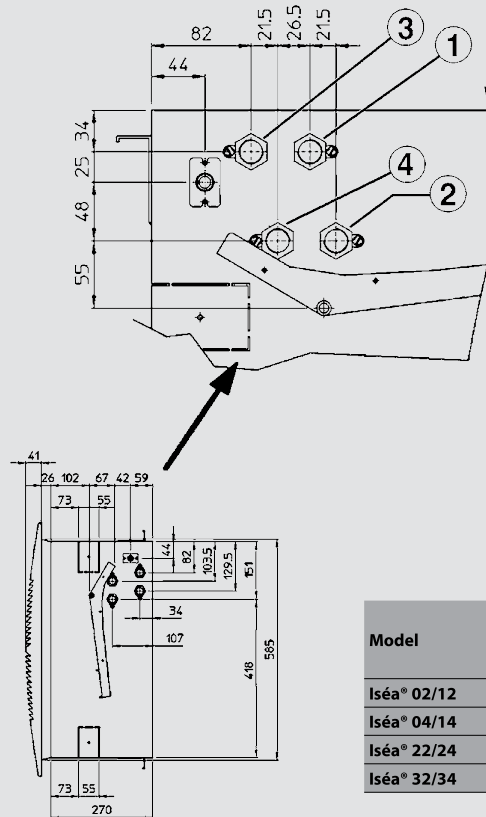
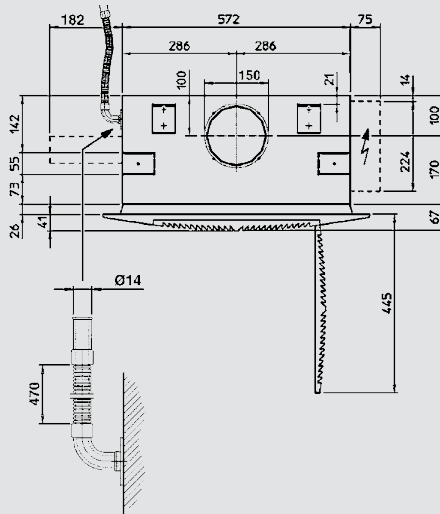
Different hot water temperatures and correction coefficients, see the technical sheet available on our website.

* (E) Eurovent certified performance levels.

TECHNICAL DESCRIPTION

• Dimensions, box-out and weight

- 600 x 600 version



2-tube installation

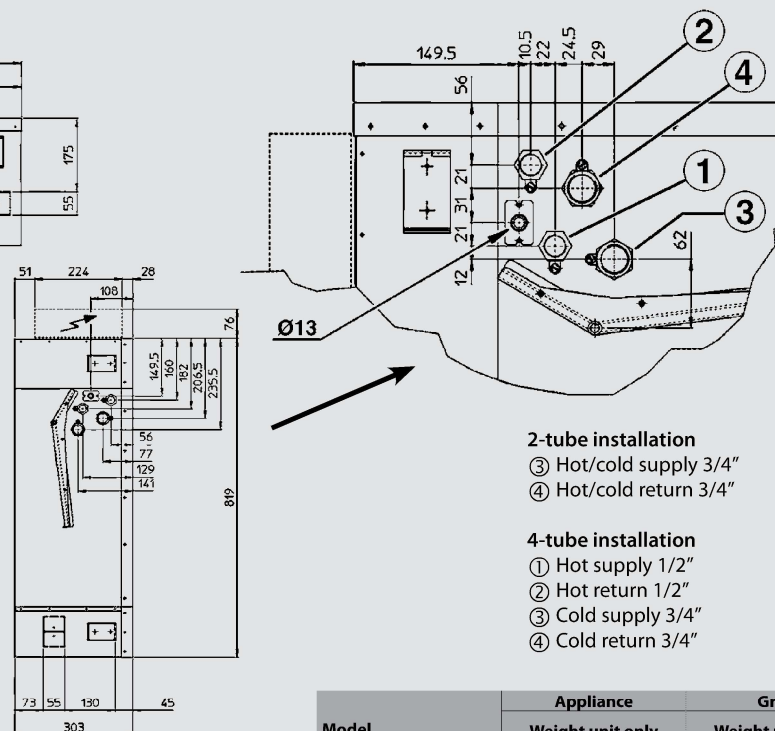
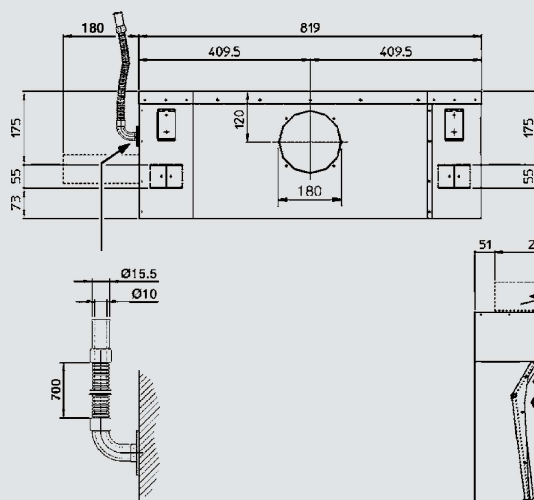
- ③ Hot/cold supply 1/2"
- ④ Hot/cold return 1/2"

4-tube installation

- ① Hot supply 1/2"
- ② Hot return 1/2"
- ③ Cold supply 1/2"
- ④ Cold return 1/2"

Model	Appliance	Grille
	Weight unit only (kg)	Weight unit only (kg)
Iséa® 02/12	22	2
Iséa® 04/14	24	2
Iséa® 22/24	24	2
Iséa® 32/34	24	2

- 800 x 800 version



2-tube installation

- ③ Hot/cold supply 3/4"
- ④ Hot/cold return 3/4"

4-tube installation

- ① Hot supply 1/2"
- ② Hot return 1/2"
- ③ Cold supply 3/4"
- ④ Cold return 3/4"

Model	Appliance	Grille
	Weight unit only (kg)	Weight unit only (kg)
Iséa® 42	36	2
Iséa® 44	39	4
Iséa® 52/54	39	4
Iséa® 62/64	39	4

• Fresh air supply

Cassette heaters are equipped with fresh air intake devices on the side. The fresh air flow rate cannot exceed 20 % of the appliance's air flow rate at average speed with a maximum of 100 m³/h.

TECHNICAL DESCRIPTION

• Operating limits

Water circuit	Max. pressure: 10 bar	Water inlet minimum temperature: +5°C
		Water inlet maximum temperature: +80°C
Ambient air	Relative humidity between 15-75%	Minimum temperature: +6°C
		Maximum temperature: +40°C
Power supply	Single-phase nominal voltage: 230 V 50 Hz	
Installation	Maximum height: 4 metres	

The water pressure drops are available on our website:
www.france-air.com.

• Electric heater

- Factory-fitted.
- Safety thermostats included (automatic at +45°C and manual at +80°C).

Model	Iséa® 12	Iséa® 22/32	Iséa® 42/52/62
Installed power	1,5 kW	2,5 kW	3 kW
Power supply	230 V	230 V	230 V
Connection	3 x 1.5 mm2	3 x 2.5 mm2	3 x 2.5 mm2

REGULATION

• Thermostats

A large range of thermostats to suit all requirements:

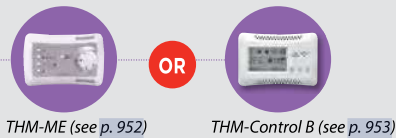
- 2 T/4 T or 2 T + 2 wires.
- Manual/automatic ventilation control.

Refer to the selection guide (p. 947).

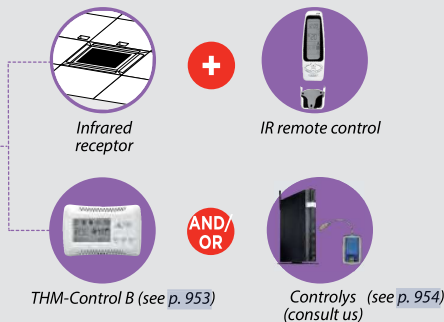
Stand-alone operation
for Iséa® Déco SR



Master/slave operation
for Iséa® Déco ME



Modbus CMS operation
for Iséa® Déco MB



• Connection and valve diameter

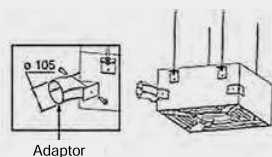
Iséa®	Chilled water terminals		Cassette heater hose/valve		Valve			
	Diameter of main coil outlet	Diameter of additional coil outlet	Main coil connection	Additional coil connection	Diameter of the main coil valve	Diameter of the additional coil valve	Kvs main coil valve	Kvs additional coil valve
02 / 12 / 22 / 32	1/2"	-	Semi rigid 1/2" - 3/4"	-	3/4"	-	2,5	-
42 / 52 / 62	3/4"	-	semi-rigid 3/4" - 3/4"	-	3/4"	-	4	-
04 / 14 / 24 / 34	1/2"	1/2"	Semi rigid 1/2" - 3/4"	Semi rigid 1/2" - 3/4"	3/4"	3/4"	2,5	2,5
44 / 54 / 64	3/4"	1/2"	semi-rigid 3/4" - 3/4"	Semi rigid 1/2" - 3/4"	3/4"	3/4"	4	2,5

This table reflects pre-selected Kvs and diameters for 3-way valves + bypass.

ACCESSORIES

• Fresh air nozzle

- Standard rectangular 110/55 mm.
- Accessories: adaptor for circular ducts.



• Changeover sensor T2



• Factory-assembled or unassembled valve kit

The valve kit comprises:

- One 2-way or 3-way valve + bypass.
- One on/off motor (230 V).
- One copper tube connecting the EG unit and the valve.

