

cPIA rSMART OFFICE

2-pipe, 2-pipe / 2-wire, 4-pipe

Multi-zone, multi-purpose comfort unit

Power from 1 kW to 7.5 kW
depending on the configuration

- Integrated multi-task control
- Native multi-zone
- High pressure available
- Fast installation (Plug & Play)
- Low noise levels
- Control of indoor air quality
- OPC UA protocol in native IP to BMS

Support with entering RE 2020 compliance data for reversible multi-zone heat pump emitters



EMISSION SYSTEM

Type of emitter	Heating and cooling
Fans connected to emitters	Automated regulation permitting full fan deactivation

HEATING / COOLING EMITTER

Coil with gradually regulated water flow rate control (for both heating and cooling)

Fan power consumption (heating and cooling)		
	cPIA 6	cPIA 8
Low-speed power	5 W	8 W
Medium-speed power	12 W	18 W
High-speed power	26 W	40 W
Emitter recirculation flow rate (heating and cooling)		
	cPIA 6	cPIA 8
Recirculation flow at low speed	130 m ³ /h	180 m ³ /h
Recirculation flow at medium speed	220 m ³ /h	290 m ³ /h
Recirculation flow at high speed	380 m ³ /h	580 m ³ /h

EXAMPLE OF A HEATING / COOLING NETWORK

Type of network	Double pipe		
Network location	Network entirely in heated volume (usually observed)		
Temperature management (EUREVIA heat pump)	Modulation according to outdoor temperature		
	HOT	COLD	
Start temperature (not used with EUREVIA heat pump)	40 or 45 °C	7 to 10 °C	
Temperature drop	5 °C	5 °C	
Power regulation	Variable flow rate control	Minimum flow	0 m ³ /h
Network insulation in heated volume (recommended)	Class 2		
Circulator control mode	No circulator present		

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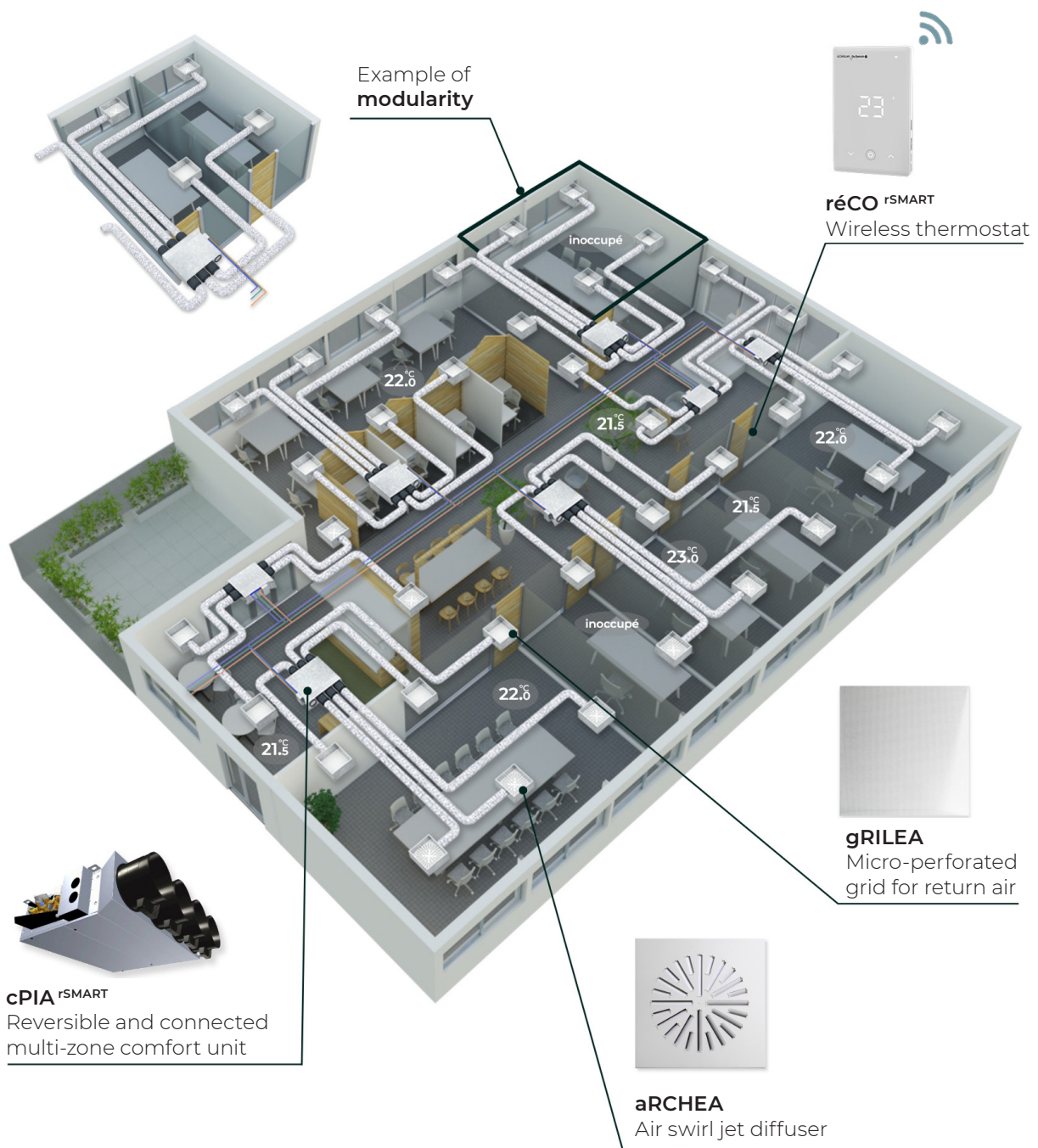
Description

The cPIA^{rSMART} ducted comfort unit is the definitive solution for distributing air-based heating and / or cooling, suitable for commercial buildings, including co-working spaces, collaborative spaces, creative areas, etc. The OFFICE version of the cPIA is available in 3 configurations: 2-pipe, 2-pipe / 2-wire, 4-pipe.

Native multi-zone and integrated multi-task control

The cPIA^{rSMART} comfort unit is the only natively designed multi-zone ducted central unit. One supply zone corresponds to one climate zone. The integrated control system allows you to set a different temperature in each office and to control and manage blinds, lighting, opening systems, temperature sensors, etc.

The multi-zone system enables the number of machines to be optimised while maintaining a high level of modularity, as shown in the example below :



More documents available on request.

Very low energy consumption for our buildings of tomorrow

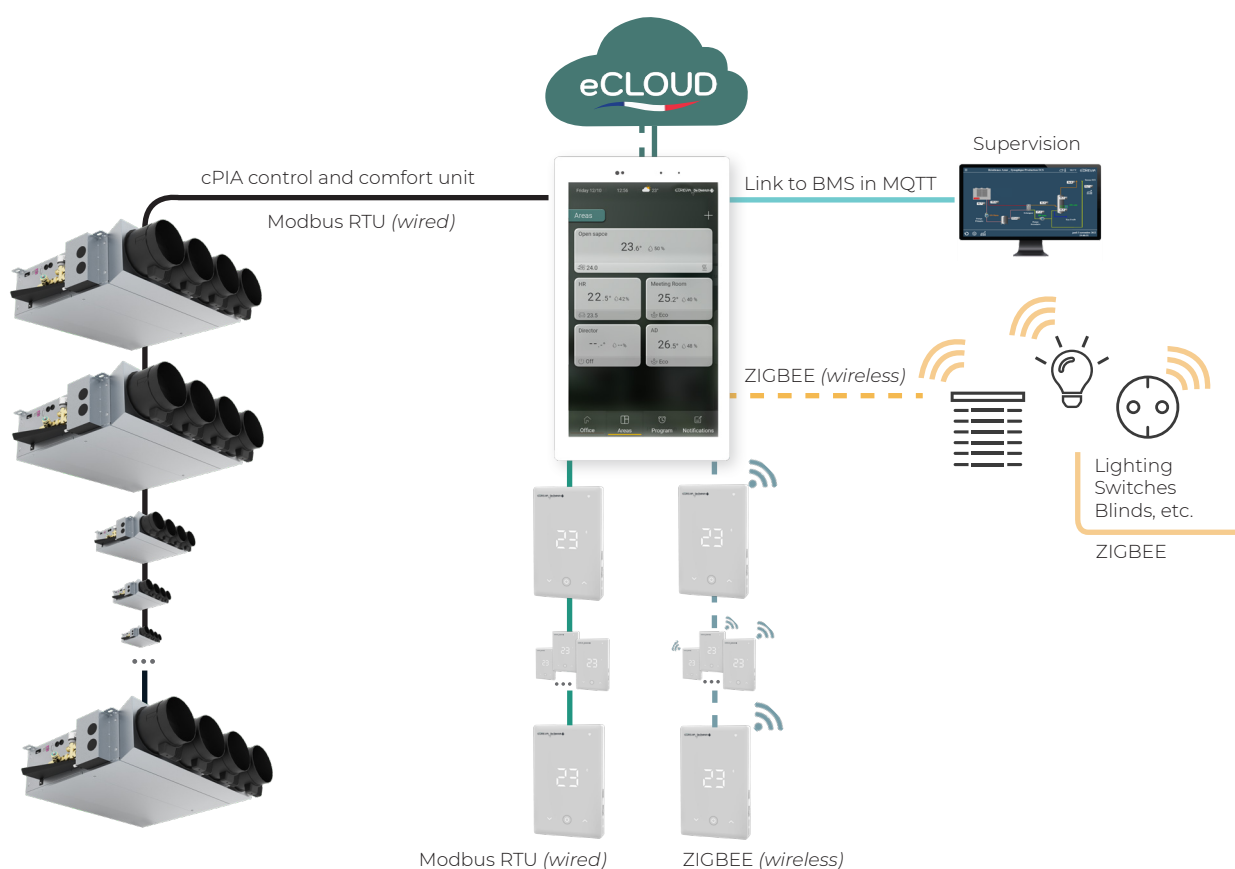
A pioneer in EC technology, EUREVIA is once again breaking new ground by using electronically-switched motorised fans to :

- Achieve unrivalled levels of performance and efficiency.
- Favour intelligent operation and adaptability to its environment, thanks to constant-pressure motors and the very high pressure available (*240 Pa as standard, up to 400 Pa as an option*).
- The cPIA^{rSMART} ensures pressure stability by compensating for any drop in pressure (*meeting room, open space, etc.*) while guaranteeing thermal comfort and a low noise level.

Designed and optimised for high-performance multi-task operation

The cPIA^{rSMART} has been designed for optimised communication with EUREVIA monitoring tools. It is also capable of communicating under the OPC UA protocol with all the open supervision systems normally used for Building Management Systems.

The link to the BMS is in native IP, simplifying wiring and eliminating the need for an additional gateway.



Low noise levels for optimum comfort

The high-performance acoustic insulation on all sides makes the cPIA^{rSMART} the quietest ducted unit in its category. The constant-pressure control of the motorised fans, with no perceptible variation in ventilation speed, makes a major contribution to the sense of well-being. The latest tests show that the **cPIA perfectly meets the requirements of modern offices, with or without false ceilings** (*acoustic laboratory test on request*).

Plug & Play units

The cPIA^{rSMART} comfort units arrive on site **ready to use and wired** (*motorised air connections, hydraulic system, controls, etc.*). They are also aerally and hydraulically **pre-set** according to the operation selection table (*each machine has its own dynamic balancing valve - depending on the configuration*).

Each machine leaving the EUREVIA factory is labelled with its location (*example: building A - 1 st floor, office no. 102*). This considerably reduces commissioning time.

EUREVIA tests **all** of its cPIA^{rSMART} units before they leave the factory, which means that it achieves close to zero-defect manufacturing quality.

Multiple configurations to meet your needs as closely as possible

The reversible units are designed to be installed horizontally in false ceilings.

The cPIA ^{rSMART} range is available in reversible 2-pipe C / O, reversible 2-pipe, 2-wire or 4-pipe configurations.

The high pressure available (*max 240 Pa*) means that the cPIA ^{rSMART} unit can be adapted to any type of air distribution network and provides high-performance diffusion with all EUREVIA diffusers.

Ease of maintenance for the operator

All components, such as the coil, motorised fans, filter, control system and hydraulic system, can be accessed directly from below, without having to remove the unit from the ceiling.

General characteristics - 2 pipes			cPIA 6	cPIA 8
Hydraulics	Coil volume	L	1,2	1,6
	Coil connection	"	½ female	¾ female
Electronics	Power supply	VAC	230	230
	Frequency	Hz	50	50
	Nominal motor power consumption	W	90	180
	Electrical heater power (<i>optional</i>)	W	750 or 1 500	1 250 or 2 500

General characteristics - 4 pipes			cPIA 6	cPIA 8
Hydraulics	Volume of hot / cold coil	L	0,8 / 0,5	1,2 / 0,7
	Hot / cold coil connection	"	½ female / ½ female	¾ female / ½ female
Electronics	Power supply	VAC	230	230
	Frequency	Hz	50	50
	Nominal motor power consumption	W	90	180
	Electrical heater (<i>not available</i>)	/	/	/

2-pipe C / O version

Quick selection

cPIA 6 2T 4R	AIR DISTRIBUTION				HOT POWER		COLD POWER		ACOUSTIC POWER	
	Air flow rate	Static pressure	Power consumption	SFP ^(*)	Water 45 / 40 °C P _c	Water 55 / 35 °C P _c	Water 7 / 12 °C		Supply L _{ws}	Return + Rad. L _{wr}
	m ³ /h	Pa	W	W / (m ³ /s)	W	W	P _t	P _s	dB (A)	dB (A)
1 OUTLET / MIN	130	15	5	-	1050	1170	1140	680	33	35
1 OUTLET / MEDIUM	220	30	12	196	1700	1720	1900	1140	40	42
2 OUTLETS / MEDIUM	380	30	26	246	2730	2750	2990	1810	45	47
3 OUTLETS / MEDIUM	530	30	48	326	3610	3650	3840	2360	49	51
3 OUTLETS / MAX	680	50	103	-	4410	4450	4590	2860	55	57

cPIA 8 2T 4R	AIR DISTRIBUTION				HOT POWER		COLD POWER		ACOUSTIC POWER	
	Air flow rate	Static pressure	Power consumption	SFP ^(*)	Water 45 / 40 °C P _c	Water 55 / 35 °C P _c	Water 7 / 12 °C		Supply L _{ws}	Return + Rad. L _{wr}
	m ³ /h	Pa	W	W / (m ³ /s)	W	W	P _t	P _s	dB (A)	dB (A)
1 OUTLET / MIN	180	15	8	-	1460	1600	1560	930	33	40
1 OUTLET / MEDIUM	290	30	18	223	2260	2260	2550	1530	40	46
2 OUTLETS / MEDIUM	580	30	40	248	4130	4240	4520	2750	46	51
3 OUTLETS / MEDIUM	800	30	72	324	5390	5520	5760	3550	49	53
4 OUTLETS / MEDIUM	1000	30	110	440	6440	6560	6740	4190	49	54
5 OUTLETS / MEDIUM	1100	30	150	491	6940	7050	7190	4490	51	55
4/5 OUTLETS / MAX	1210	50	204	-	7480	7560	7620	4780	54	58

P_c : heating capacity, air inlet 19 °C

P_t : total cooling capacity, air inlet 27 °C - 50 % RH

P_s : sensible cooling capacity, air inlet 27 °C - 50 % RH

L_{ws} : supply sound power level in accordance with standard ISO 3741 / 88

L_{wr} : return and radiated sound power level, measured in accordance with ISO 3741 / 88

L_{ps} : sound pressure level, taking account of theoretical attenuation by the building and the distribution system of 18 dB

L_{pr} : sound pressure level taking account of theoretical attenuation by the ceiling and room of 9 dB

(*) SFP : "Specific Fan Power" given in W/(m³/s) under "nominal" flow conditions and for a static pressure of 30 pa

For a clean filter and dry elements. Classification of SFP according to EN 13779 : SFP1

Unit configuration : 2 pipes, 4 rows, open extract air, supply tap, diameter 200 mm, without fresh air supply

Heating performance details

cPIA 6 2T 4R	Air flow rate	Water temperature 55 / 35 °C			Water temperature 45 / 40 °C			Water temperature 40 / 35 °C		
		Pc	Qc	Pdc	Pc	Qc	Pdc	Pc	Qc	Pdc
	m³/h	W	l/h	kPa	W	l/h	kPa	W	l/h	kPa
AIR INLET 19 °C										
1 OUTLET / MIN	130	1170	51	0,1	1050	182	1,3	830	144	0,9
1 OUTLET / MEDIUM	220	1720	75	0,3	1700	295	3,1	1340	233	2,1
2 OUTLETS / MEDIUM	380	2750	119	0,6	2730	474	7,3	2150	373	4,8
3 OUTLETS / MEDIUM	530	3650	158	1,0	3610	627	11,9	2820	490	7,8
3 OUTLETS / MAX	680	4450	193	1,5	4410	766	17,0	3450	599	11,2
AIR INTAKE 20 °C										
1 OUTLET / MIN	130	1120	49	0,1	1000	174	1,2	780	135	0,8
1 OUTLET / MEDIUM	220	1650	72	0,3	1620	281	2,9	1260	219	1,9
2 OUTLETS / MEDIUM	380	2590	112	0,6	2610	453	6,7	2020	351	4,3
3 OUTLETS / MEDIUM	530	3460	150	0,9	3440	597	11,0	2660	462	7,1
3 OUTLETS / MAX	680	4220	183	1,3	4210	731	15,7	3250	564	10,1

Pc : heating capacity Qc : non-glycol hot water flow rate Pdc : coil pressure drop (without hydraulic option)

Unit configuration : 2 pipes, 4 rows, open extract air, supply tap, diameter 200 mm, without fresh air supply

cPIA 8 2T 4R	Air flow rate	Water temperature 55 / 35 °C			Water temperature 45 / 40 °C			Water temperature 40 / 35 °C		
		Pc	Qc	Pdc	Pc	Qc	Pdc	Pc	Qc	Pdc
	m³/h	W	l/h	kPa	W	l/h	kPa	W	l/h	kPa
AIR INLET 19 °C										
1 OUTLET/MIN	180	1600	69	0,1	1460	254	1,3	1150	200	0,9
1 OUTLET/MEDIUM	290	2260	98	0,3	2260	392	2,9	1780	309	2,0
2 OUTLETS/MEDIUM	580	4240	184	0,8	4130	717	8,5	3240	563	5,7
3 OUTLETS/MEDIUM	800	5520	240	1,2	5390	936	13,7	4220	733	9,0
4 OUTLETS/MEDIUM	1000	6560	283	1,6	6440	1110	18,8	5040	869	12,4
5 OUTLETS/MEDIUM	1100	7050	304	1,9	6940	1195	21,5	5430	935	14,1
4/5 OUTLETS/MAX	1210	7560	328	2,1	7480	1299	24,5	5840	1014	16,1
AIR INLET 20 °C										
1 OUTLET/MIN	180	1540	67	0,1	1400	243	1,2	1090	189	0,8
1 OUTLET/MEDIUM	290	2170	94	0,2	2160	375	2,7	1680	292	1,8
2 OUTLETS/MEDIUM	580	4020	175	0,7	3950	686	7,9	3060	531	5,1
3 OUTLETS/MEDIUM	800	5240	227	1,1	5150	894	12,6	3980	691	8,2
4 OUTLETS/MEDIUM	1000	6230	269	1,5	6160	1061	17,3	4760	820	11,2
5 OUTLETS/MEDIUM	1100	6700	289	1,7	6630	1142	19,7	5120	882	12,7
4/5 OUTLETS/MAX	1210	7190	312	1,9	7140	1240	22,6	5510	957	14,5

Pc : heating capacity Qc : non-glycol hot water flow rate Pdc : coil pressure drop (without hydraulic option)

Unit configuration : 2 pipes, 4 rows, open extract air, supply tap, diameter 200 mm, without fresh air supply

Unit configuration : 2 pipes, 4 rows, open extract air, supply tap, diameter 200 mm, without fresh air supply

Cooling performance details

cPIA 6 2T 4R	Air flow rate	Water temperature 7 / 12 °C				Water temperature 8 / 13 °C				Water temperature 9 / 14 °C			
	m³/h	Pt W	Ps W	Qf l/h	Pdc kPa	Pt W	Ps W	Qf l/h	Pdc kPa	Pt W	Ps W	Qf l/h	Pdc kPa
AIR INLET 27°C - 50% RH													
1 OUTLET / MIN	130	1140	680	196	1,8	1040	640	179	1,5	940	590	161	1,3
1 OUTLET / MEDIUM	220	1900	1140	326	4,4	1720	1050	296	3,7	1530	960	263	3,0
2 OUTLETS / MEDIUM	380	2990	1810	514	9,9	2710	1690	466	8,3	2420	1550	416	6,8
3 OUTLETS / MEDIUM	530	3840	2360	660	15,6	3480	2200	598	13,0	3110	2020	534	10,6
3 OUTLET / MAX	680	4590	2860	789	21,3	4160	2650	715	17,8	3710	2440	637	14,5
AIR INLET 26°C - 50% RH													
1 OUTLET / MIN	130	1030	640	177	1,5	930	590	160	1,3	830	550	143	1,0
1 OUTLET / MEDIUM	220	1690	1050	290	3,6	1500	960	258	2,9	1280	860	220	2,2
2 OUTLETS / MEDIUM	380	2670	1690	459	8,1	2380	1550	409	6,6	2080	1410	357	5,2
3 OUTLETS / MEDIUM	530	3430	2200	589	12,7	3070	2030	527	10,4	2680	1840	460	8,1
3 OUTLET / MAX	680	4100	2660	704	17,5	3660	2450	629	14,2	3200	2230	550	11,1

Pt : total cooling capacity

Ps : sensible cooling capacity

Qf : non-glycol cold water flow rate

Pdc : coil pressure drop (without hydraulic option)

Unit configuration : 2 pipes, 4 rows, open extract air, supply tap, diameter 200 mm, without fresh air supply

cPIA 8 2T 4R	Air flow rate	Water temperature 7 / 12 °C				Water temperature 8 / 13 °C				Water temperature 9 / 14 °C			
	m³/h	Pt W	Ps W	Qf l/h	Pdc kPa	Pt W	Ps W	Qf l/h	Pdc kPa	Pt W	Ps W	Qf l/h	Pdc kPa
AIR INLET 27°C - 50% RH													
1 OUTLET / MIN	180	1560	930	268	1,8	1410	860	242	1,5	1270	800	218	1,2
1 OUTLET / MEDIUM	290	2550	1530	438	4,2	2320	1420	399	3,6	2070	1300	356	2,9
2 OUTLETS / MEDIUM	580	4520	2750	777	11,7	4120	2560	708	9,8	3680	2360	632	8,0
3 OUTLETS / MEDIUM	800	5760	3550	990	18,0	5220	3290	897	15,0	4670	3040	802	12,2
4 OUTLETS / MEDIUM	1000	6740	4190	1161	23,7	6110	3900	1052	19,8	5450	3590	939	16,1
5 OUTLETS / MEDIUM	1100	7190	4490	1238	26,6	6520	4180	1123	22,2	5810	3850	1000	18,1
4 / 5 OUTLETS / MAX	1210	7620	4780	1309	29,5	6900	4450	1185	24,7	6160	4090	1058	20,0
AIR INLET 26°C - 50% RH													
1 OUTLET / MIN	180	1400	870	241	1,5	1270	810	218	1,2	1130	740	194	1,0
1 OUTLET / MEDIUM	290	2280	1420	392	3,5	2030	1300	349	2,8	1750	1160	301	2,2
2 OUTLETS / MEDIUM	580	4050	2570	696	9,6	3630	2370	624	7,9	3180	2150	546	6,2
3 OUTLETS / MEDIUM	800	5150	3310	885	14,7	4260	3050	732	12,0	4040	2780	694	9,5
4 OUTLETS / MEDIUM	1000	6030	3910	1039	19,4	5390	3610	928	15,9	4720	3280	813	12,5
5 OUTLETS / MEDIUM	1100	6430	4200	1108	21,8	5750	3870	990	17,8	5030	3520	866	13,9
4 / 5 OUTLETS / MAX	1210	6850	4500	1177	24,5	6120	4140	1051	20,0	5360	3770	921	15,6

Pt : total cooling capacity

Ps : sensible cooling capacity

Qf : non-glycol cold water flow rate

Pdc : coil pressure drop (without hydraulic option)

Unit configuration: 2 pipes, 4 rows, open extract air, supply tap, diameter 200 mm, without fresh air supply

Pressure drop

cPIA 6 2T 4R	Air flow rate	HEAT PUMP OPERATION							CONDENSATION BOILER OPERATION						
		Water temperature 7 / 12 °C							Water temperature 55 / 35 °C						
	m³/h	Pt W	Qf l/h	Pdc kPa	Pdc1 kPa	Pdc2 kPa	Pdc3 kPa	Pdc4 kPa	Pc W	Qc l/h	Pdc kPa	Pdc1 kPa	Pdc2 kPa	Pdc3 kPa	Pdc4 kPa
1 OUTLET / MEDIUM	220	1690	290	3,6	6,9	19,6	22,9	23,6	1650	71	0,3	0,5	11,6	11,8	11,5
2 OUTLETS / MEDIUM	380	2670	459	8,1	16,4	28,3	36,6	37,9	2590	111	0,6	1,1	12,7	13,2	13,0
3 OUTLETS / MEDIUM	530	3430	589	12,7	26,3	36,6	50,3	53,1	3460	149	0,9	1,8	13,7	14,6	14,4

cPIA 8 2T 4R	Air flow rate	FONCTIONNEMENT POMPE A CHALEUR							FONCTIONNEMENT CHAUDIERE A CONDENSATION						
		Water temperature 7 / 12 °C							Water temperature 55 / 35 °C						
	m³/h	Pt W	Qf l/h	Pdc kPa	Pdc1 kPa	Pdc2 kPa	Pdc3 kPa	Pdc4 kPa	Pc W	Qc l/h	Pdc kPa	Pdc1 kPa	Pdc2 kPa	Pdc3 kPa	Pdc4 kPa
1 OUTLET / MEDIUM	290	2280	392	3,5	6	36,0	38,4	39,4	2170	93	0,2	0,3	30,4	30,5	30,4
2 OUTLETS / MEDIUM	580	4050	696	9,6	17,4	47,3	55,1	59,0	4020	173	0,7	1,2	31,2	31,7	33,7
3 OUTLETS / MEDIUM	800	5150	885	14,7	27,3	57,2	69,8	75,3	5240	225	1,1	1,9	31,9	32,7	33,3
4 OUTLETS / MEDIUM	900	5600	962	19,5	34,4	64,3	79,3	91,7	6230	268	1,5	2,7	32,7	33,8	34,2

Pt : total cooling capacity, air inlet 26 °C - 50 % RH

Qf : non-glycol cold water flow rate

Pc : heating capacity, air inlet 20 °C

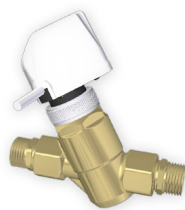
Qc : non-glycol hot water flow rate

Pdc : coil assembly pressure drop alone

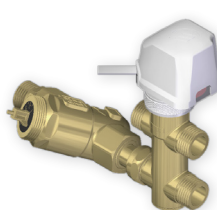
Unit configuration : 2 pipes, 4 rows, open extract air, supply tap, diameter 200 mm, without fresh air supply



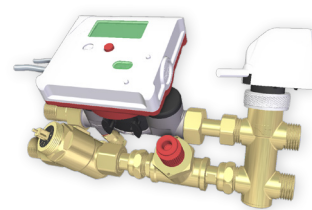
Pdc 1



Pdc 2



Pdc 3



Pdc 4

Pdc 1 : coil assembly pressure drop, 4-way motorised valve assembly

Pdc 2 : coil assembly pressure drop, motorised dynamic balancing valve

Pdc 3 : coil assembly pressure drop, motorised 4-way valve, dynamic balancing valve

Pdc 4 : coil assembly pressure drop, motorised 4-way valve, dynamic balancing valve, energy meter

Option :

- Isolation valves and insulated or non-insulated hydraulic hose assemblies are available as accessories and supplied on request.



2-pipe / 2-wire version *

Electrical heating kit

As an option, the cPIA^{SMART} unit can be equipped with a single-pipe electrical heater made of 304 stainless steel, onto which silicone cables are moulded to ensure optimal sealing. The pipes are inserted into the set of fins of the hydraulic coil, without contacting the water circuit, for perfect power distribution. In the event of overheating, the system is protected by a first safety stage with automatic reset, followed by a second stage with manual reset.

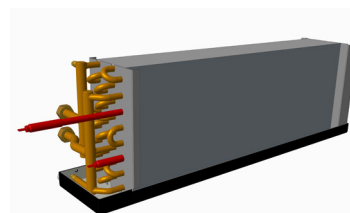
cPIA 6 electrical heating kit	
Power	Minimum flow
750 W	100 m ³ /h

cPIA 8 electrical heating kit	
Power	Minimum flow
1250 W	200 m ³ /h

Note:

- It takes 30 seconds, post-ventilation, to cool the electrical heaters (controlled by the control system).
- The minimum airflow to be guaranteed depends on the power of the heaters selected

* Technical specifications identical to the 2-pipe version



4-pipe version

Quick selection

cPIA 6 4T 3+2 R	AIR DISTRIBUTION				HOT POWER		COLD POWER		ACOUSTIC POWER	
	Air flow rate	Static pressure	Power consumption	SFP ^(*)	Water 45/40 °C Pc	Water 70/60 °C Pc	Water 7/12 °C		Supply Lws	Return + Rad Lwr
	m ³ /h	Pa	W	W/(m ³ /s)	W	W	Pt	Ps	dB (A)	dB (A)
1 OUTLET/MIN	130	15	5	-	870	1710	1120	670	33	35
1 OUTLET/MEDIUM	220	30	12	196	1320	2600	1740	1060	40	42
2 OUTLETS/MEDIUM	380	30	26	246	2000	3940	2640	1640	45	47
3 OUTLETS/MEDIUM	530	30	48	326	2550	5020	3330	2100	49	51
3 OUTLETS/MAX	680	50	103	-	3030	5970	3930	2500	55	57

cPIA 8 4T 3+2 R	AIR DISTRIBUTION				HOT POWER		COLD POWER		ACOUSTIC POWER	
	Air flow rate	Static pressure	Power consumption	SFP ^(*)	Water 45/40 °C Pc	Water 70/60 °C Pc	Water 7/12 °C		Supply Lws	Return + Rad Lwr
	m ³ /h	Pa	W	W/(m ³ /s)	W	W	Pt	Ps	dB (A)	dB (A)
1 OUTLET/MIN	180	15	8	-	1190	2340	1520	910	33	40
1 OUTLET/MEDIUM	290	30	18	223	1740	3440	2290	1390	40	46
2 OUTLETS/MEDIUM	580	30	40	248	2950	5820	3890	2420	46	51
3 OUTLETS/MEDIUM	800	30	72	324	3710	7330	4860	3070	49	53
4 OUTLETS/MEDIUM	1000	30	110	396	4330	8550	5630	3600	50	54
4/5 OUTLETS/MAX	1210	50	204	-	4920	9730	6340	4100	54	58

Pc : heating capacity, air inlet 19 °C

Ps : sensible cooling capacity, air inlet 27 °C - 50 % RH

Lws : supply sound power level in accordance with ISO 3741/88

Pt : total cooling capacity, air inlet 27 °C - 50 % RH

Lwr : return and radiated sound power level in accordance with standard ISO 3741/88

(*) SFP : "Specific Fan Power" given in W/(m³/s) under "nominal" flow conditions and for a static pressure of 30 pa. For a clean filter and dry elements. SFP classification according to standard EN 13779 : SFP 1

Configuration of cPIA 6 unit : 4 pipes, 3 rows, 2 cooling circuits + 2 rows, 1 heating circuit

Configuration of cPIA 8 unit : 4 pipes, 3 rows, 3 cooling circuits + 2 rows, 2 heating circuits

Heating performance details

cPIA 6 4T 3+2R	Air flow rate	Water temperature 70 / 60 °C			Water temperature 60 / 50 °C			Water temperature 45 / 40 °C		
		Pc	Qc	Pdc	Pc	Qc	Pdc	Pc	Qc	Pdc
	m³/h	W	l/h	kPa	W	l/h	kPa	W	l/h	kPa
AIR INLET 19 °C										
1 OUTLET / MIN	130	1710	147	8,4	1340	115	5,6	870	150	9,3
1 OUTLET / MOY	220	2600	224	17,7	2030	175	11,8	1320	227	13,6
2 OUTLETS / MOY	380	3940	339	37,0	3070	264	24,5	2000	344	28,5
3 OUTLETS / MOY	530	5020	432	56,8	3900	336	37,4	2550	439	43,8
3 OUTLETS / MAX	680	5970	514	77,4	4640	400	50,9	3030	522	85,6
AIR INLET 20 °C										
1 OUTLET / MIN	130	1670	144	8,0	1300	112	5,3	830	143	8,6
1 OUTLET / MOY	220	2540	219	17,0	1970	170	11,2	1260	217	12,6
2 OUTLETS / MOY	380	3850	332	35,5	2980	257	23,2	1910	329	26,3
3 OUTLETS / MOY	530	4900	422	54,5	3780	326	35,5	2430	419	40,4
3 OUTLETS / MAX	680	5830	502	74,2	4500	388	48,2	2900	500	78,9

Pc : heating capacity

Qc : non-glycol hot water flow rate

Pdc : coil pressure drop (without hydraulic option)

Unit configuration : 4 pipes, 3+2 rows, open extract air, supply tap, diameter 200 mm, without fresh air supply.

cPIA 8 4T 3+2R	Air flow rate	Water temperature 70 / 60 °C			Water temperature 60 / 50 °C			Water temperature 45 / 40 °C		
		Pc	Qc	Pdc	Pc	Qc	Pdc	Pc	Qc	Pdc
	m³ / h	W	l / h	kPa	W	l / h	kPa	W	l / h	kPa
AIR INLET 19 °C										
1 OUTLET / MIN	180	2340	202	2,8	1830	158	1,8	1190	205	3,1
1 OUTLET / MOY	290	3440	296	5,5	2680	231	3,6	1740	300	6,1
2 OUTLETS / MOY	580	5820	501	14,1	4510	388	9,2	2950	508	15,4
3 OUTLETS / MOY	800	7330	631	21,2	5670	488	13,8	3710	639	23,3
4 OUTLETS / MOY	1000	8550	736	27,9	6610	569	18,1	4330	746	30,6
5 OUTLETS / MOY	1100	9130	786	31,3	7050	607	20,3	4620	796	34,4
4 / 5 OUTLETS / MAX	1210	9730	838	35,1	7510	647	22,8	4920	847	38,5
AIR INLET 20 °C										
1 OUTLET / MIN	180	2290	197	2,7	1770	152	1,7	1130	195	2,8
1 OUTLET / MOY	290	3360	289	5,3	2590	223	3,4	1660	286	5,6
2 OUTLETS / MOY	580	5680	489	13,5	4370	376	8,7	2810	484	14,2
3 OUTLETS / MOY	800	7160	617	20,3	5500	474	13,1	3540	610	21,4
4 OUTLETS / MOY	1000	8350	719	26,7	6410	552	17,2	4130	711	28,2
5 OUTLETS / MOY	1100	8910	767	30,0	6830	588	19,3	4410	760	31,7
4 / 5 OUTLETS / MAX	1210	9500	818	33,6	7280	627	21,6	4700	810	35,5

Pc : heating capacity

Qc : non-glycol hot water flow rate

Pdc : coil pressure drop (without hydraulic option)

Unit configuration : 4 pipes, 3+2 rows, open extract air, supply tap, diameter 200 mm, without fresh air supply.

Cooling performance details

cPIA 6 4T 3+2R	Air flow rate	Water temperature 7 / 12 °C				Water temperature 8 / 13 °C				Water temperature 9 / 14 °C			
		Pt	Ps	Qf	Pdc	Pt	Ps	Qf	Pdc	Pt	Ps	Qf	Pdc
	m³/h	W	W	l/h	kPa	W	W	l/h	kPa	W	W	l/h	kPa
AIR INLET 27 °C - 50 % HR													
1 OUTLET / MIN	130	990	660	171	3,2	870	600	150	2,5	730	520	126	1,8
1 OUTLET / MOY	220	1560	1050	269	7,0	1390	970	239	5,8	1220	880	210	4,5
2 OUTLETS / MOY	380	2360	1630	407	14,8	2120	1510	365	12,1	1860	1380	320	9,5
3 OUTLETS / MOY	530	2990	2090	515	22,4	2670	1940	460	18,2	2340	1770	403	14,4
3 OUTLETS / MAX	680	3520	2510	606	30,1	3150	2320	543	24,5	2750	2120	474	19,2
ENTREE D'AIR 26 °C - 50 % HR													
1 OUTLET / MIN	130	840	590	145	2,3	730	530	126	1,8	630	480	109	1,4
1 OUTLET / MOY	220	1380	970	238	5,7	1210	880	208	4,5	1020	790	176	3,3
2 OUTLETS / MOY	380	2100	1510	362	12,0	1840	1390	317	9,5	1580	1250	272	7,1
3 OUTLETS / MOY	530	2650	1950	456	18,1	2330	1790	401	14,3	1990	1610	343	10,8
3 OUTLETS / MAX	680	3120	2340	537	24,3	2740	2140	472	19,2	2340	1930	403	14,4

Pt : total cooling capacity

Ps : sensible cooling capacity

Qf : non-glycol cold water flow rate

Pdc : coil assembly pressure drop alone

Unit configuration : 4 pipes, 3+2 rows, open extract air, supply tap, diameter 200 mm, without fresh air supply.

cPIA 8 4T 3+2R	Air flow rate	Water temperature 7 / 12 °C				Water temperature 8 / 13 °C				Water temperature 9 / 14 °C			
	m³/h	Pt	Ps	Qf	Pdc	Pt	Ps	Qf	Pdc	Pt	Ps	Qf	Pdc
		W	W	l/h	kPa	W	W	l/h	kPa	W	W	l/h	kPa
AIR INLET 27 °C - 50 % HR													
1 OUTLET / MIN	180	1290	870	222	2,1	1090	760	188	1,5	960	700	165	1,2
1 OUTLET / MOY	290	2040	1370	351	4,7	1820	1260	313	3,8	1580	1140	272	2,9
2 OUTLETS / MOY	580	3480	2410	599	12,1	3110	2230	536	9,9	2710	2030	467	7,7
3 OUTLETS / MOY	800	4350	3070	749	18,0	3880	2840	668	14,7	3390	2590	584	11,5
4 OUTLETS / MOY	1000	5030	3600	866	23,4	4480	3320	772	18,9	3910	3030	673	14,8
5 OUTLETS / MOY	1100	5340	3850	920	26,0	4760	3550	820	21,1	4150	3240	715	16,4
4/5 OUTLETS / MAX	1210	5660	4110	975	28,9	5040	3790	868	23,4	4390	3450	756	18,2
AIR INLET 26 °C - 50 % HR													
1 OUTLET / MIN	180	1080	770	186	1,5	960	910	165	1,2	840	650	145	1,0
1 OUTLET / MOY	290	1790	1260	308	3,7	1560	1140	269	2,9	1120	900	193	1,6
2 OUTLETS / MOY	580	3080	2240	531	9,7	2700	2040	465	7,7	2290	1830	394	5,7
3 OUTLETS / MOY	800	3850	2850	663	14,5	3370	2610	580	11,4	2860	2340	493	8,5
4 OUTLETS / MOY	1000	4450	3350	767	18,8	3900	3060	672	14,8	3310	2740	570	11,0
5 OUTLETS / MOY	1100	4720	3580	813	20,9	4130	3270	711	16,4	3510	2930	605	12,2
4/5 OUTLETS / MAX	1210	5010	3820	863	23,2	4380	3490	754	18,2	3720	3130	641	13,5

Pt : total cooling capacity

Ps : sensible cooling capacity

Qf : non-glycol cold water flow rate

Pdc : coil assembly pressure drop alone

Unit configuration : 4 pipes, 3+2 rows, open extract air, supply tap, diameter 200 mm, without fresh air supply.

Pressure drop

cPIA 6 4T 3+2 R	Air flow rate	COLD OPERATION						WARM OPERATION					
	m³/h	Water temperature 7 / 12 °C						Water temperature 70 / 60 °C					
		Pt W	Qf l/h	Pdc kPa	Pdc1 kPa (V4V)	Pdc2 kPa (Flowcon)	Pdc3 kPa (V4V + Flowcon)	Pt W	Qc l/h	Pdc kPa	Pdc1 kPa (V4V)	Pdc2 kPa (Flowcon)	Pdc3 kPa (V4V + Flowcon)
1 OUTLET / MEDIUM	220	1740	300	8,6	12,1	25,6	37,7	2600	224	12,3	14,3	27,3	41,6
2 OUTLETS / MEDIUM	380	2640	455	18,1	26,2	38,1	64,3	3940	339	25,8	30,3	43,8	74,1
3 OUTLETS / MEDIUM	530	3330	574	27,3	40,1	51,3	91,4	5020	432	39,7	47,0	59,7	106,6

cPIA 8 4T 3+2 R	Air flow rate	COLD OPERATION						WARM OPERATION					
	m³/h	Water temperature 7/12 °C						Water temperature 70/60 °C					
		Pt W	Qf l/h	Pdc kPa	Pdc1 kPa (V4V)	Pdc2 kPa (Flowcon)	Pdc3 kPa (V4V + Flowcon)	Pt W	Qc l/h	Pdc kPa	Pdc1 kPa (V4V)	Pdc2 kPa (Flowcon)	Pdc3 kPa (V4V + Flowcon)
1 OUTLET / MEDIUM	290	2290	394	5,8	8,3	33,0	41,3	3440	296	5,5	6,9	37,5	44,4
2 OUTLETS / MEDIUM	580	3890	670	14,8	22,0	37,0	59,0	5820	501	14,1	18,1	48,1	66,1
3 OUTLETS / MEDIUM	800	4860	837	22,1	33,3	41,0	74,3	7330	631	21,2	27,6	58,2	85,8
4 OUTLETS / MEDIUM	1000	5630	970	28,6	43,6	45,0	88,6	8550	736	27,9	36,6	66,9	103,5

Pt : total cooling capacity, air inlet 27 °C - 50 % RH

Pc : heating capacity, air inlet 19 °C

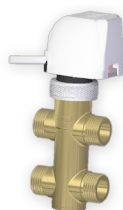
Pdc : coil assembly pressure drop alone

Qf : non-glycol cold water flow rate

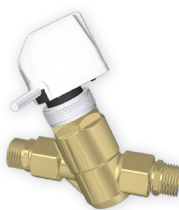
Qc : non-glycol hot water flow rate

Configuration of cPIA 6 unit : 4 pipes, 3 rows, 2 cooling circuits + 2 rows, 1 heating circuit

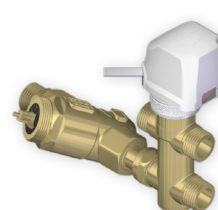
Configuration of cPIA 8 unit : 4 pipes 3 rows, 3 cooling circuits + 2 rows 2 heating circuits



Pdc 1



Pdc 2



Pdc 3

Pdc 1 : coil assembly pressure drop, 4-way motorised valve assembly

Pdc 2 : coil assembly pressure drop, motorised dynamic balancing valve

Pdc 3 : coil assembly pressure drop, motorised 4-way valve, dynamic balancing valve

Acoustic characteristics

cPIA 6	NOISE LEVELS							
	Air flow rate m ³ / h	Static pressure Pa	Lw : sound power level				Lp : sound pressure level	
			Supply	Return air	Radiated	Return + Radiated	Supply	Return + Radiated
			dB (A)	dB (A)	dB (A)	dB (A)	dB (A)	dB (A)
1 OUTLET / MIN	130	15	33	34	29	35	15	26
1 OUTLET / MEDIUM	220	30	40	41	35	42	22	33
2 OUTLETS / MEDIUM	380	30	45	46	39	47	27	38
3 OUTLETS / MEDIUM	530	30	49	50	43	51	31	42
3 OUTLETS / MAX	680	50	55	56	48	57	37	48

cPIA 8	NOISE LEVELS							
	Air flow rate m ³ / h	Static pressure Pa	Lw : sound power level				Lp : sound pressure level	
			Supply	Return air	Radiated	Return + Radiated	Supply	Return + Radiated
			dB (A)	dB (A)	dB (A)	dB (A)	dB (A)	dB (A)
1 OUTLET / MIN	180	15	33	39	33	40	15	31
1 OUTLET / MEDIUM	290	30	40	45	39	46	22	37
2 OUTLETS / MEDIUM	580	30	46	50	43	51	28	42
3 OUTLETS / MEDIUM	800	30	49	53	45	53	31	44
4 OUTLETS / MEDIUM	900	30	49	53	45	54	31	45
5 OUTLETS / MEDIUM	1100	30	51	54	46	55	33	46
4/5 OUTLETS / MAX	1210	50	54	57	49	58	36	49

Lw : sound power level measured in accordance with standard ISO 3741 / 88

Lp supply : sound pressure level, taking account of theoretical attenuation by the building and the distribution system of 18 dB

Lp return+radiated : sound pressure level taking account of theoretical attenuation by the ceiling and room of 9 dB.

We can send you the results of the test carried out in your home, on request.

Housing

The 10 gauge galvanised sheet steel housing is covered with 13-mm thick 1 open-cell acoustic insulation. The hydraulic connections are connected at the rear of the machine, which makes it easy to install in false ceilings where space is tight. The underside of the unit can be removed to access all components during maintenance operations. The condensate drip trays are covered with 3-mm-thick M1 closed-cell insulation.



Motorised fan

The synchronous motorised fan consists of a dual-blade aluminium turbine and a galvanised steel volute. It regulates its speed according to requirements using EC (*Electronic Commutation*) technology. The motorised fan is equipped with integrated electronics, controlled by a constant-pressure logic, enabling it to constantly adapt to the areas in demand. As a result, it offers high efficiency while guaranteeing maximum acoustic comfort.

Hydraulic coil

Given the many different production sources (*collective or individual heat pumps, urban circuits, heat networks, seawater circuits, etc.*), as designers of our coils we are able to adapt "made-to-measure" exchangers according to the source of production. This ensures that the power of the comfort units is maintained despite low water flow rates.

The hydraulic coil is made up of aluminium fins crimped onto copper pipes for optimum thermal efficiency. Its drain point is located at the top of the hydraulic coil.

Consisting of 4 rows as standard in the 2-pipe version and 5 rows (*3 + 2 or 4 + 1*) as standard in the 4-pipe version, the hydraulic coil minimises water pressure drop, offers maximum power, and is fitted with a water trap and drain. It is slide-mounted for quick and easy removal during maintenance operations.

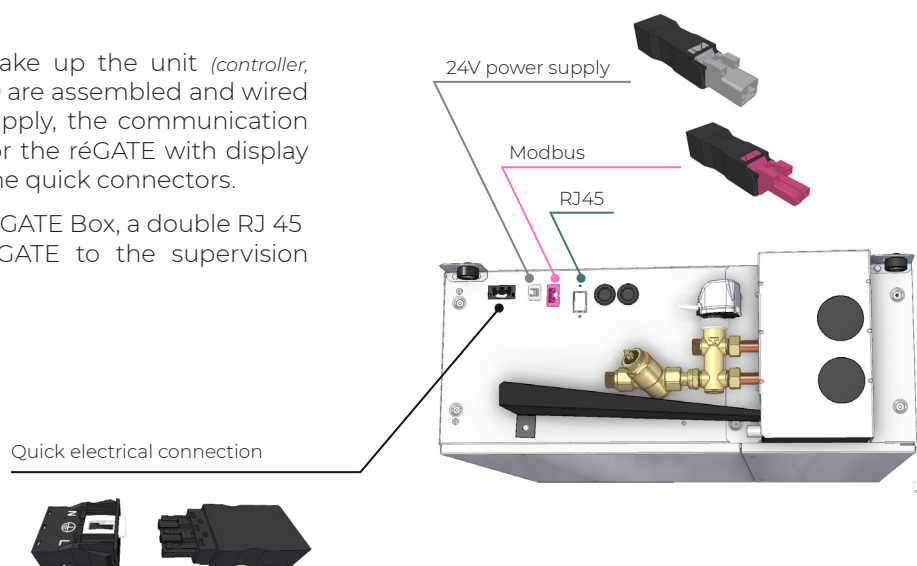
On request:

- Tailor-made coil for intermediate speeds...

Electrical connections

All the components that make up the unit (*controller, motorised air connections, valve, etc.*) are assembled and wired in the factory. The power supply, the communication bus and the power supply for the réGATE with display can be connected thanks to the quick connectors.

In the case of a cPIA with a réGATE Box, a double RJ 45 connector connects the réGATE to the supervision system.



Air quality

As air quality is a major public health issue, EUREVIA equips its cPIA^{rSMART} comfort units with high-performance filtering systems.

Thanks to the very high pressure available, cPIA^{rSMART} units can include, as an option, factory-fitted 60 % ePM 1 filters (e.g. - F 7), without requiring any hardware modifications. What's more, the integrated control system can be used to run air purification cycles (*locally or remotely*) to clean the air. For the record, ePM 1 filters are used in hospital environments.

The 60 % ePM 1 filter system proposed by EUREVIA now meets the requirements of the new ISO 16890 standard, guaranteeing efficiency based on the size fraction of the airborne particles : ISO ePM10 > 85 %, ISO ePM2.5 > 65 - 80 % and ISO ePM1 > = 50 - 65 %.

Comparison of classes EN 779 and ISO 16890

CLASS	ISO EPM1	ISO EPM2.5	ISO EPM10	ISO COARSE
G3	-	-	-	> 80 %
G4	-	-	-	> 90 %
M5	-	-	> 50 %	-
M6	-	50 - 65 %	> 60 %	-
F7	50 - 65 %	65 - 80 %	> 85 %	-
F8	65 - 80 %	> 80 %	> 90 %	-
F9	> 80 %	> 95 %	> 95 %	-



All figures are given as examples.

Classification of groups according to ISO 16890 based on particle size

ISO ePM 1	ePM 1, min ≥ 50 % (viruses, nanoparticles, exhaust gases)
ISO ePM 2.5	ePM 2.5, min ≥ 50 % (bacteria, fungi and mould spores, pollen, toner dust)
ISO ePM 10	ePM 10, min ≥ 50 % (pollen, desert dust)
ISO grossier	COARSE, min ≥ 50 % (sand, hair)

Hydraulic system

EUREVIA offers different hydraulic systems, factory-fitted to the cPIA^{rSMART} ducted central units.

In addition to a condensate drip tray, they can be fitted with :

4-way valve with by-pass	Controlled by a 230 V chrono-proportional thermal servo-motor
2-way valve	Controlled by a 230 V chrono-proportional thermal servo-motor
Water inlet temperature probe	Placed at the inlet of the 4-way valve, the probe informs the controller of the temperature of the water circulating in the hydraulic installation.
Motorised dynamic balancing valve	The valve ensures the water flow rate set at the factory or on site.
Ultrasonic energy meter	MID-approved for load sharing and approved billing
PVC sleeve	Accompanied by an immersion sleeve for accommodating an energy meter in the future
Condensate pump	Automatic shutdown by default (on request)
Auxiliary condensate drip tray	Recovering condensate from the hydraulic system

Return air

The cPIA ^{rSMART} unit is used to draw in extract air, and can be fitted with an optional ducted extract air connection box.

The ducted extract air connection box, clad in 10 gauge galvanised sheet steel, is lined with 13-mm-thick M1 open cell acoustic insulation. It comes in 2 versions :

- Ducted extract air connection box for cPIA ^{rSMART} 6 fitted with 3 pre-cuts (Ø 200 mm).
- Ducted extract air connection box for cPIA ^{rSMART} 8 with 4 pre-cuts (Ø 200 mm).

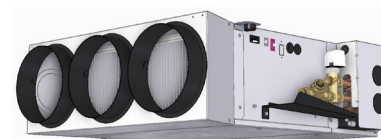
On request : customisable recovery connection boxes (90° side outlet, etc.).



cPIA 6 model
with open extract air



cPIA 6 model
with pre-cut extract air connection box



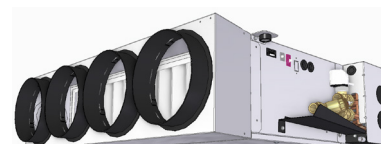
cPIA 6 model with extract air connection
box fitted with 3 taps, Ø 200 mm



cPIA 8 model
with open extract air



cPIA 8 model
with pre-cut extract air connection box



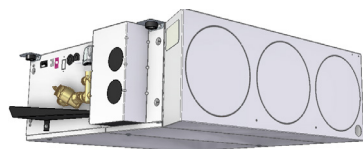
cPIA 8 model with extract air connection
box fitted with 4 taps, Ø 200 mm

Supply air

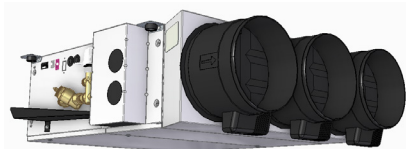
The cPIA ^{rSMART} unit features a supply air connection box clad in 10 gauge galvanised sheet steel, lined with 13-mm thick M1 open-cell acoustic insulation.

- The cPIA ^{rSMART} 6 can accommodate 1 to 4 taps (Ø 200 mm) or 2 to 4 motorised air connections (Ø 200 mm).
- The cPIA ^{rSMART} 8 can accommodate 1 to 5 taps (Ø 200 mm) or 2 to 5 motorised air connections (Ø 200 mm).

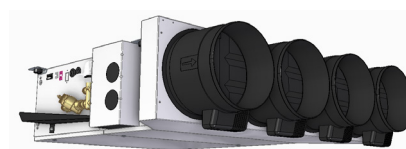
As an option, reducers (Ø 200/160 and Ø 200/125 mm) are designed for inserting onto the air connections or the taps.



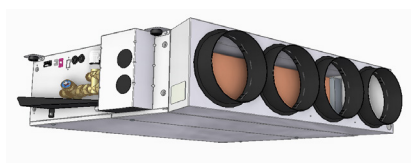
cPIA 6 model with pre-cut supply air
connection box



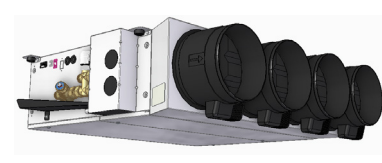
cPIA 6 model with supply air connection
box equipped with 3 air connections



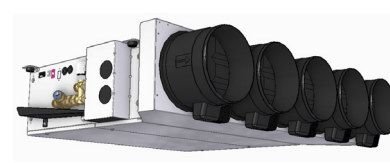
cPIA 6 model with supply air connection
box equipped with 4 air connections



cPIA 8 model with supply air connection box
equipped with 4 taps, Ø 200 mm



cPIA 8 model with supply air connection box
equipped with 4 air connections
and 4 reducers, Ø 160



cPIA 8 model with supply air connection box
equipped with 5 air connections
and 5 reducers, Ø 160

Anti-vibration mounting accessories

The unit is supplied with 4 anti-vibration mounts which include a large washer designed to accommodate an M 8 fastener.



Multi-zone / multi-task control

The cPIA^{rSMART} comfort unit features controllers to regulate the temperature independently in several separate zones.

The cPIA^{rSMART} unit incorporates a regulation system which, in addition to managing the machine's hydraulics and airflow, can also control equipment such as connected lighting and motorised blinds.

This regulation will include a “worksite” mode for local configuration and operation without an Internet connection (*Wi-Fi or wired*). In addition, “over the air” updates will be available as soon as additional functionality is added to the rSMART system.

rSMART	INSTALLATION
✓	2 pipes C / O on heat-only or reversible production
✓	2 pipes, 2 wires on heat-only or reversible production with electrical heater in the off-season and / or as a back-up in the winter
✓	4 pipes on two separate hydraulic networks, for heating and cooling

rSMART	ENVIRONMENT
✓	Contact sensors
✓	IP communication (OPC UA)
✓	Lighting management
✓	Blind control
✓	Controllable via smartphone
Coming soon	Communication with voice assistants

Accessories

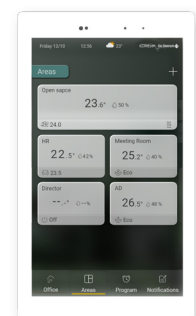
réCO thermostat

Digital Modbus RTU / Zigbee multi-function thermostat, programmable, multi-task control, air purification cycle... (See dedicated documentation)



réGATE Touch panel

The réGATE is equipped with a 7" capacitive touch screen. It communicates via OPC UA, Zigbee and Modbus TCP / IP. In certain configurations, it can be used as a simplified supervision system.



Airflow accessories

Reducing flanges for adapting the diameter at the outlet of supply air connection boxes.
There are three options to choose from :

- Standard with Ø 200 mm air connection
- Standard + flange Ø 160 mm
- Standard + flange Ø 125 mm

Standard Ø 200 mm



FRONT VIEW



ISOMETRIC VIEW

Standard + Flange Ø 160 mm



FRONT VIEW



ISOMETRIC VIEW

Standard + Bride Ø 125 mm

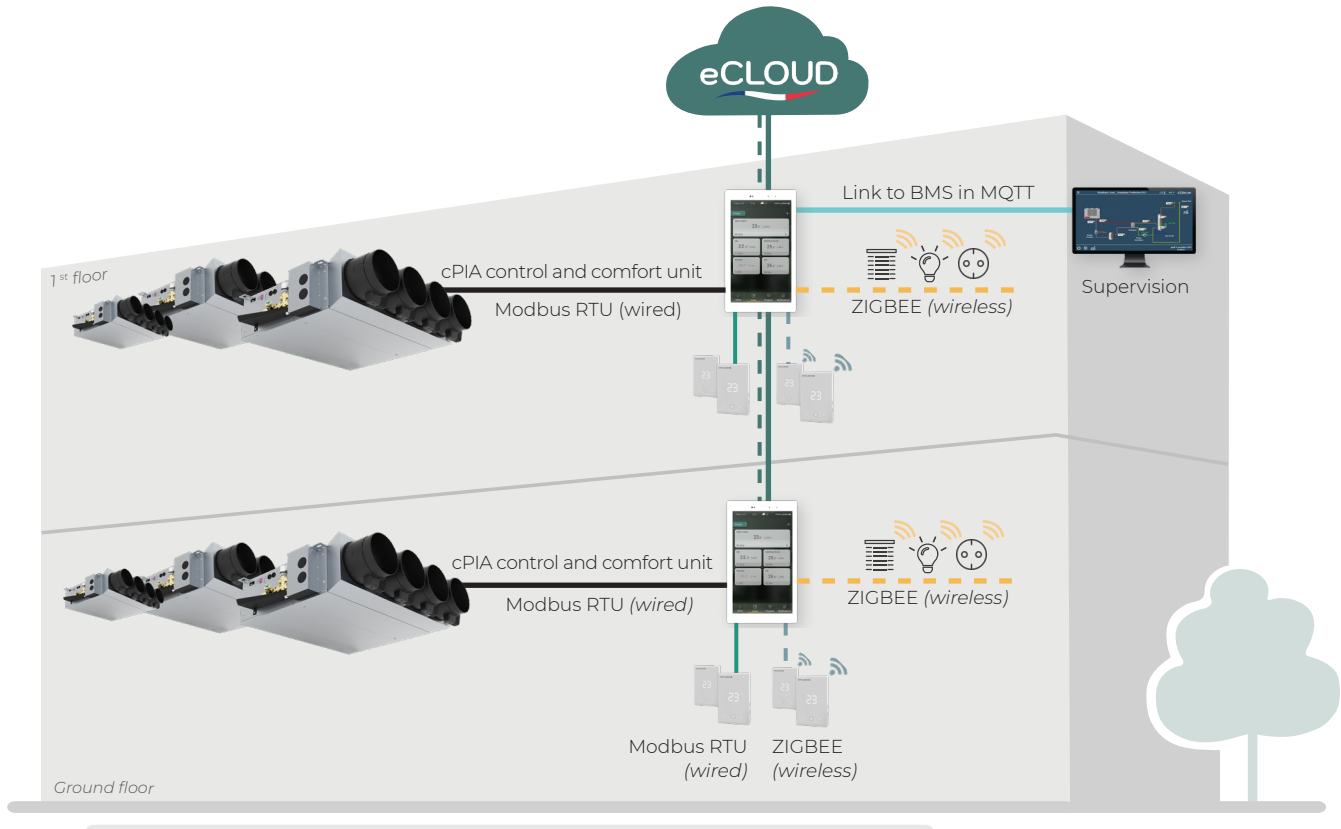


FRONT VIEW



ISOMETRIC VIEW

Connected office architecture



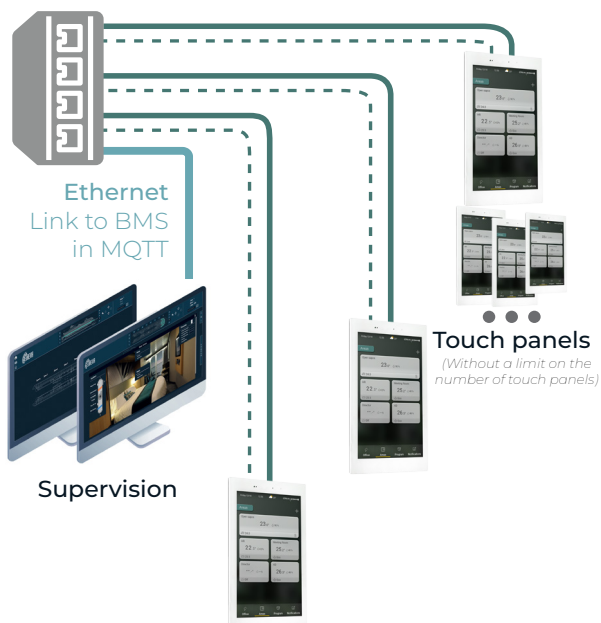
rSMART

An IoT control range designed to be integrated at the heart of a Cloud-connected installation :

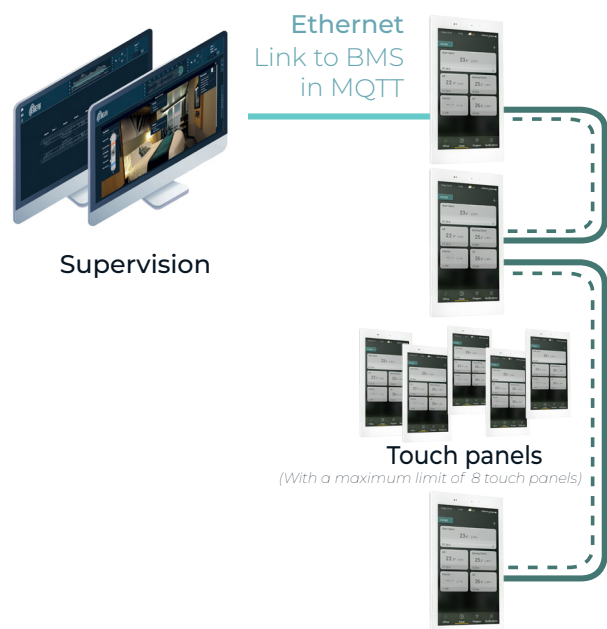
- Ultra-secure cloud architecture
- Integrated open protocols make the rSMART concept inter-operable with many other standard components on the market

NB : All trademarks are the property of their respective owners.

TRADITIONAL NETWORK ARCHITECTURE

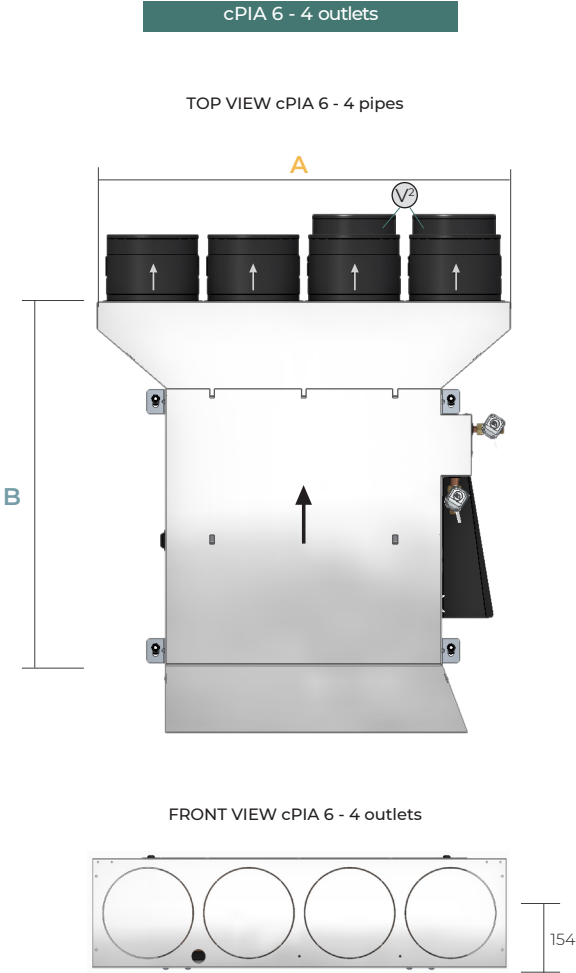
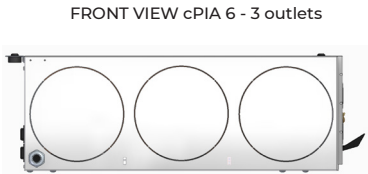
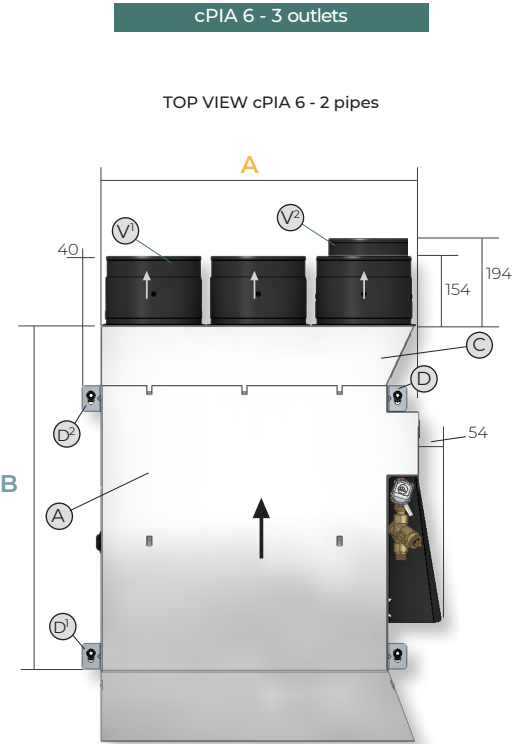


TRADITIONAL DAISY CHAIN NETWORK ARCHITECTURE (up to a maximum of 8 units)

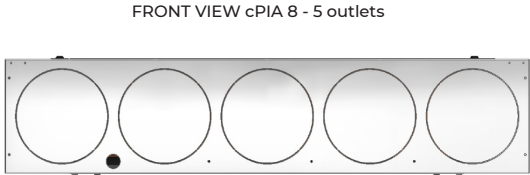
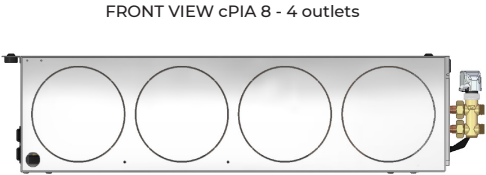
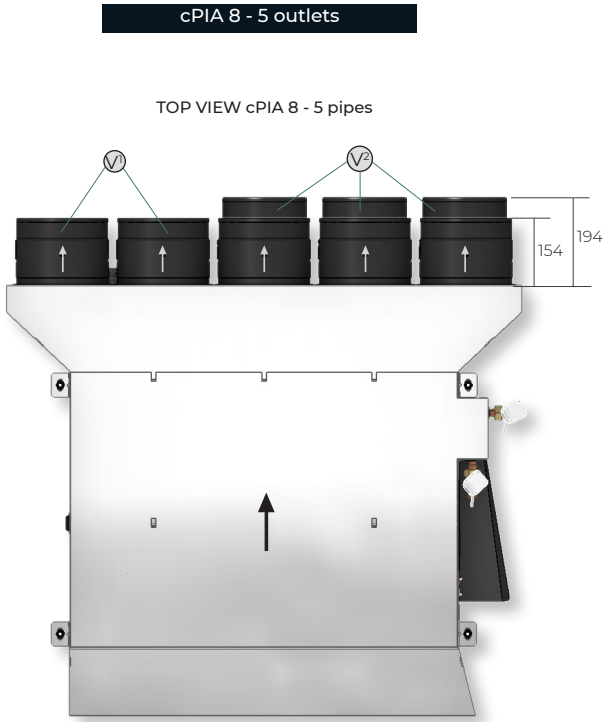
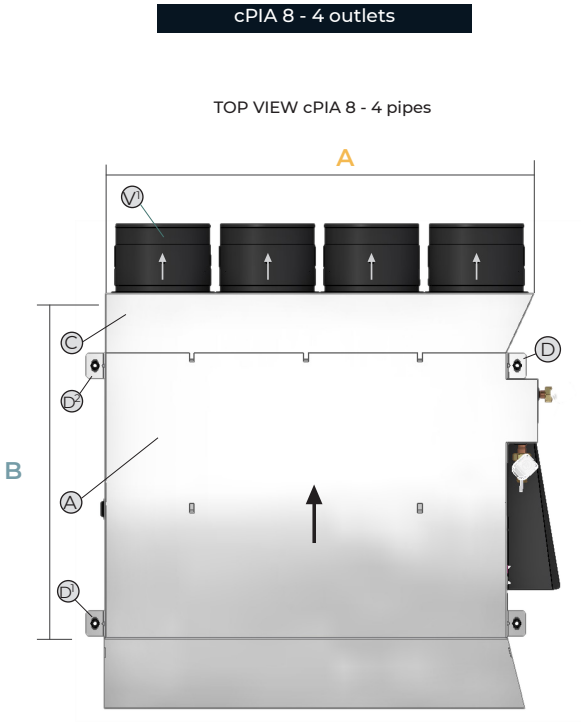


Dimensions and weights

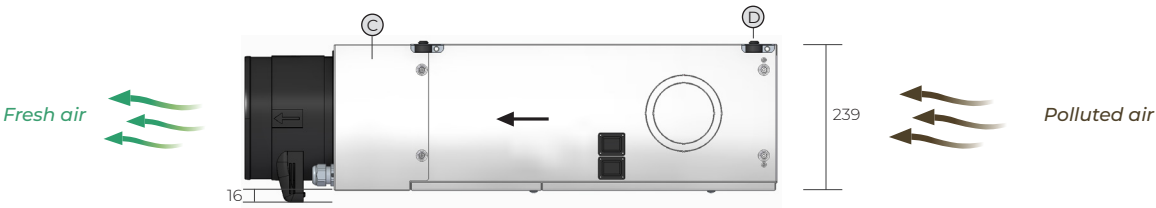
Model	cPIA 6 - 3 outlets	cPIA 6 - 4 outlets
A (mm)	666	904
B (mm)	723	792



Model	cPIA 8 - 4 outlets	cPIA 8 - 5 outlets
A (mm)	911	1124
B (mm)	723	792

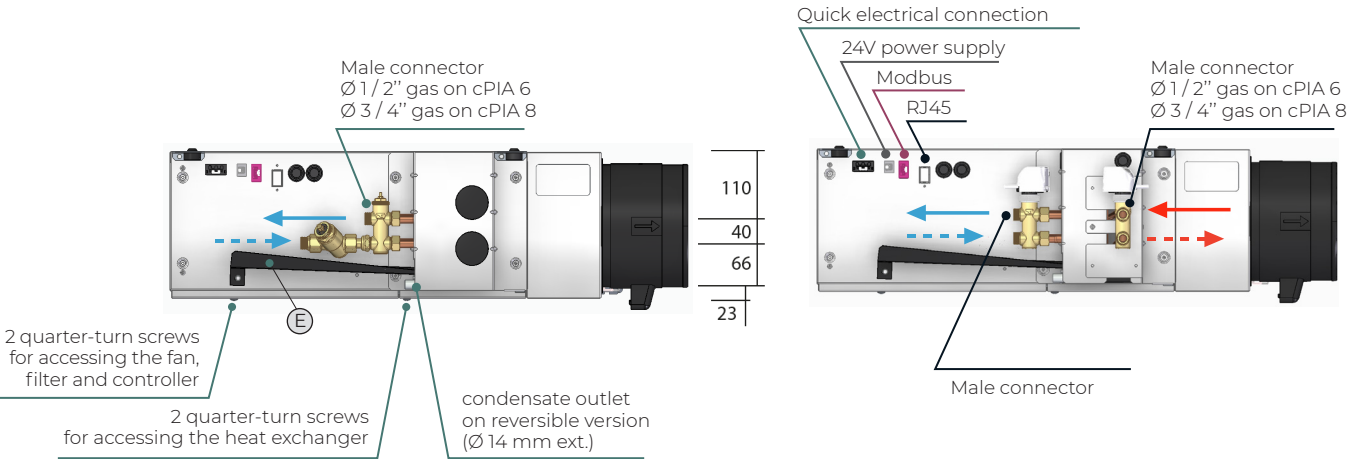


VIEW OF OPPOSITE SERVICE ACCESS SIDE



VIEW OF SERVICE ACCESS ON 2 P

VIEW OF SERVICE ACCESS ON 4 P



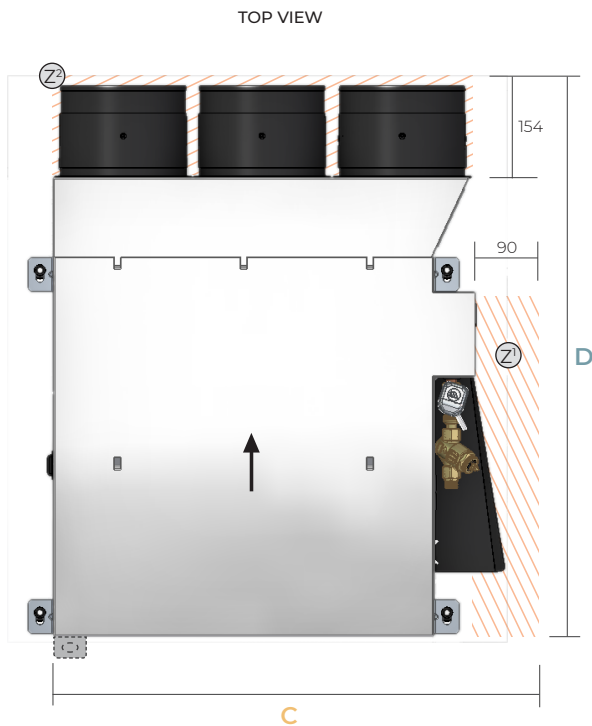
- Ⓐ cPIA unit
- Ⓒ Large or standard supply air connection box
- Ⓓ Mounting bracket
- Ⓓ¹ Mounting bracket, can be moved to position D¹ or D² (*)
- Ⓓ² Mounting bracket, can be moved to position D² (*)
- Ⓔ Removable auxiliary tray (supplied with reversible cPIA system)
- Ⓥ Motorised air connection, diameter 200 mm (depending on supply configuration)
- Ⓥ² Air connection with 160 or 125 mm reducer (depending on supply configuration)

(*) if installed against a wall, the D 1 and D 2 brackets can be moved.

- Fresh air
- Polluted air
- Cold water outlet
- Cold water inlet
- Warm water inlet
- Warm water outlet

Weight		cPIA 6 3 départs	cPIA 6 4 départs	cPIA 8 4 départs	cPIA 8 5 départs
Unit with large supply air connection box and open extract air	kg	24	25	33	34
Unité avec l'ensemble des accessoires	kg	34	36	44	45

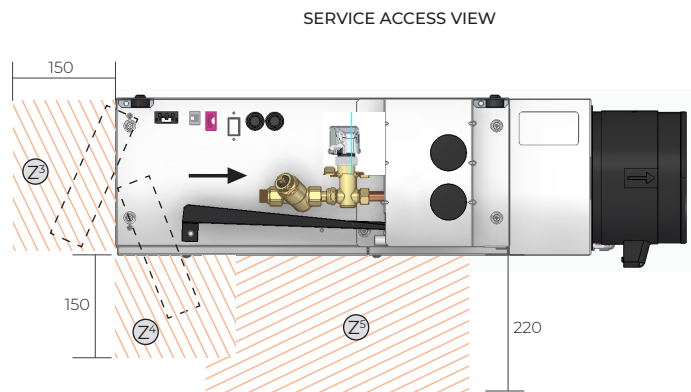
Maintenance access



Recommended hatch dimensions for a ceiling that cannot be removed *.

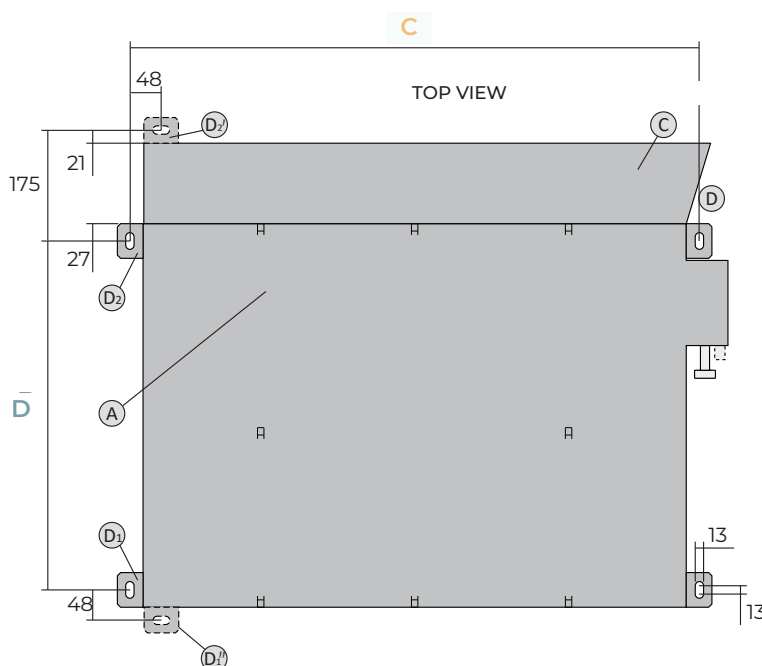
Model	cPIA 6	cPIA 8
C (mm) - 2 P	800	1200
C (mm) - 4 P	1050	1450
D (mm)	1000	1000

* For a standard unit without an extract air connection box or any other connection box



- Ⓐ Hydraulic access zone
- Ⓑ Air connection access zone
- Ⓒ Filter access zone at the rear in the case of open extract air
- Ⓓ Filter access zone from below if there is an extract air connection box
- Ⓔ Fan and hydraulic coil access zone

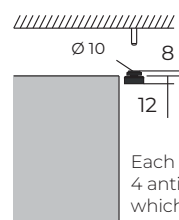
Mounting points



Model	cPIA 6	cPIA 8
C (mm)	645	889
D (mm)	542	542

- Ⓐ cPIA unit
- Ⓑ Large supply air connection box
- Ⓒ Mounting bracket
- Ⓓ Mounting bracket, can be moved to position D₁' or D₁'''⁽¹⁾
- Ⓔ Bracket, can be moved to position D₂'''⁽¹⁾

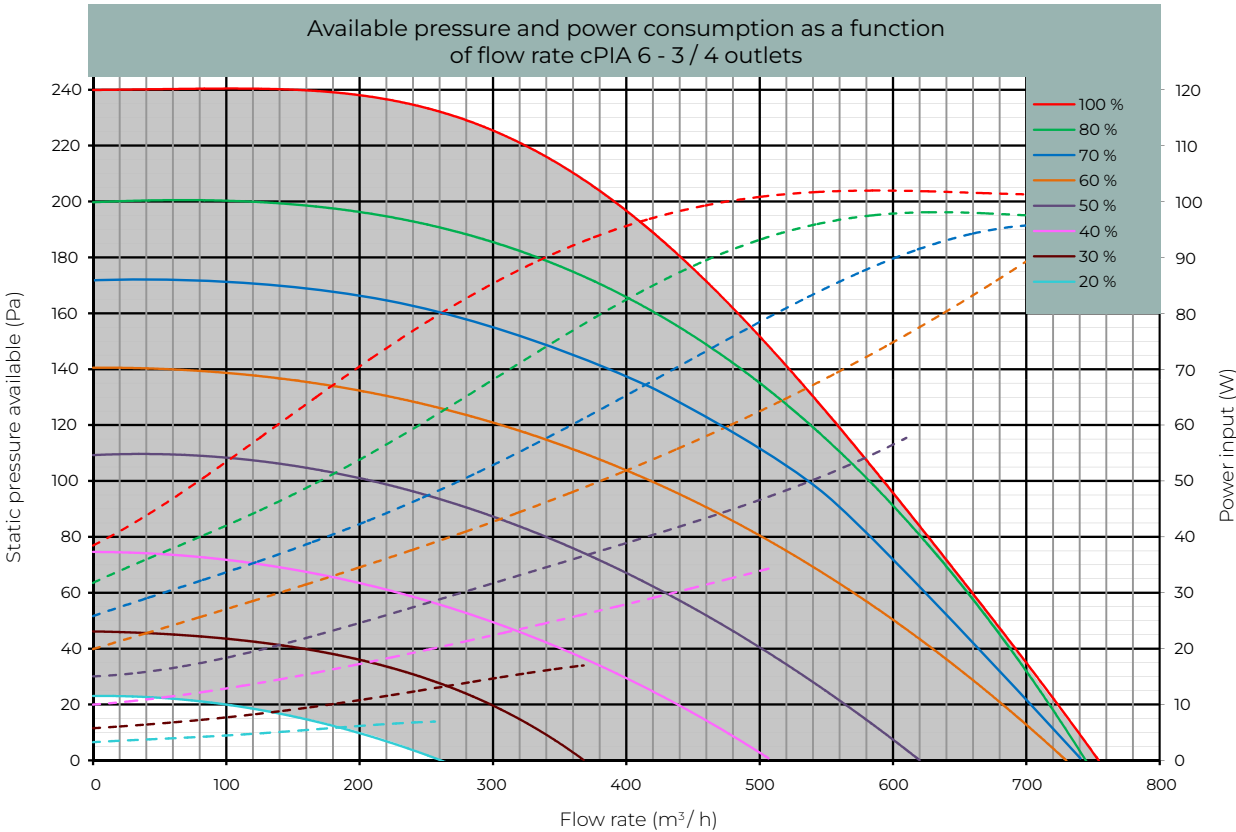
⁽¹⁾ if installed against a wall, brackets D₁ and D₂ can be moved.



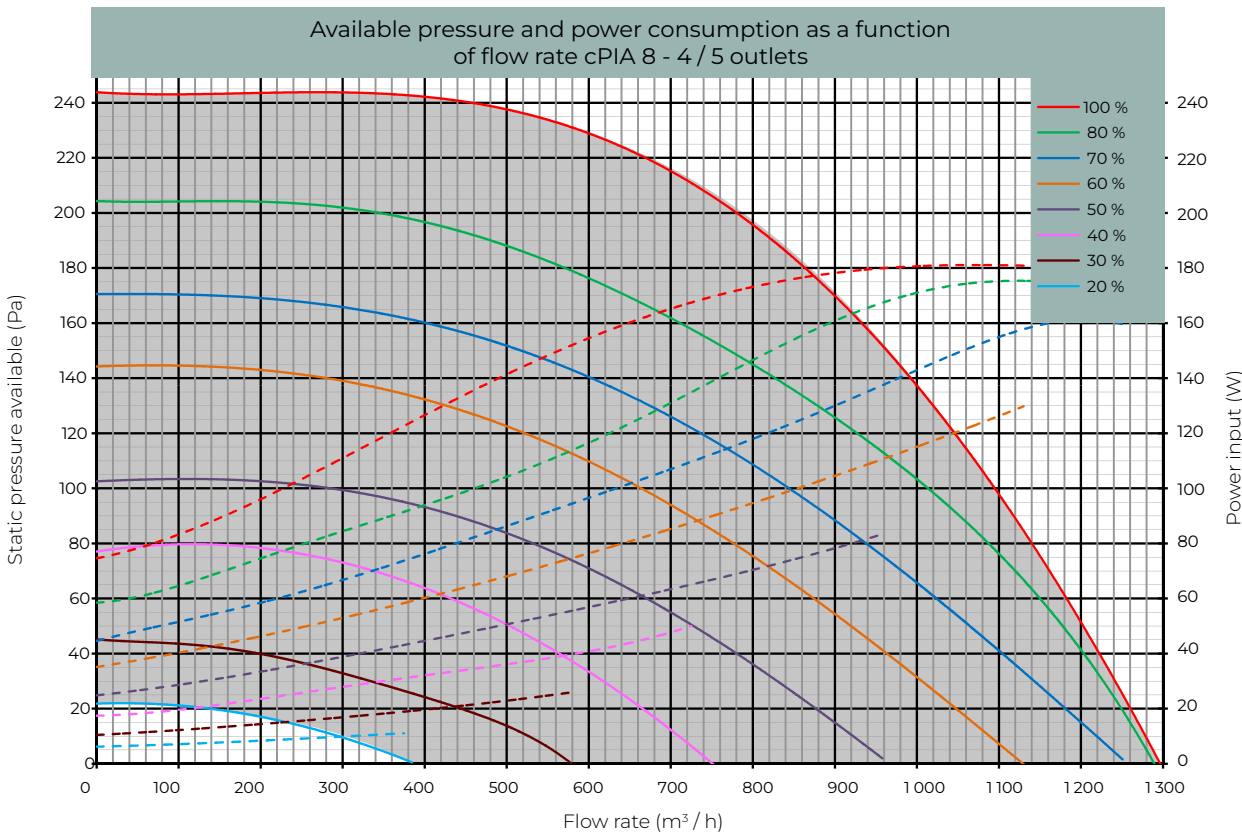
Each unit is supplied with 4 anti-vibration mounts which include a washer for an M8 fastener.

Airflow data

cPIA 6



cPIA 8



Operating range

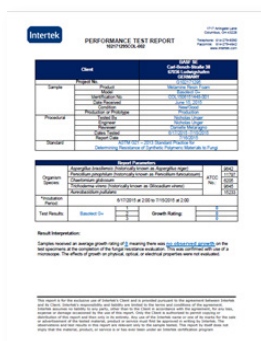
Static pressure (solid line)

Power consumption (dotted line)

High-performance open-cell insulation

Always concerned about air quality for its users, EUREVIA has sought to incorporate a “hygienic” quality mineral thermo- acoustic insulation material into its ducted units, to ensure that bacteria does not proliferate in accordance with standard N F EN ISO 846.

All the tests and certificates listed below are available on request:



ASTM G21 – 2013 Standard practice for determining resistance of synthetic polymeric materials to Fungi

Organism species :

- Aspergillus brasiliensis (historically known as Aspergillus niger)
- Penicillium pinophilum (historically known as Penicillium funiculosum)
- Chaetomium globosum
- Trichoderma virens (historically known as Gliocadium virens)
- Aureobasidium pullulans

Test result after 30 days :

- Growth rating = 0

Result interpretation :

- Samples received an average growth rating of 0 meaning there was no observed growth on the test specimens at the completion of the fungal resistance evaluation. This was confirmed with use of a microscope. The effects of growth on physical, optical, or electrical properties were not evaluated.



ASTM G22 – 1996 : Standard practice for determining resistance of plastics to bacteria (procedure A)

Organism species :

- Pseudomonas aeruginosa

Test result after 28 days :

- Growth rating = No growth



Test report 7022 - 12 testing of material according to DIN EN ISO 846, procedures A, B, B' and C

Procedure A Basic resistance against fungal growth in absence of organic contamination	Growth intensity 0	Evaluation of the material The material contains no nutrients for the growth of fungi; it is "inert" or fungistatic.
Procedures B and B' Fungistatic efficacy	Growth intensity 0	Evaluation of the material Strong fungistatic effect
Procedure C Resistance against bacteria	Result No growth	Evaluation of the material The material contains no nutrients for the growth of bacteria



Certificate hygiene conformity test

Test criteria :

Within the scope of the hygiene conformity test, the hygiene relevant requirements of the regulatory frameworks marked below were tested :

- VDI 6022, Blatt 1 (07 / 2011)
- SWKI VA104 - 01 (04 / 2006)
- VDI 3803 (02 / 2010)
- ONORM H 6021 (09 / 2003)
- DIN EN 13779 (09 / 2007)
- DIN 1946 - 4 (12 / 2008)
- SWKI 99 - 3 (03 / 2004)
- ONORM H 6020 (02 / 2007)

Test result :

The conformity of the tested model with the requirements relevant for hygiene of the aforementioned regulatory frameworks is confirmed

Multi-task, multi-zone comfort unit

cPIA ^{rSMART} **OFFICE**

Scope of application:

Offices
Commercial buildings
Co-working spaces
Shared spaces
...

System :

oZONE

CE

EUREVIA *by* **De Dietrich** 

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