

HEAT PUMPS R407C – R22

AIR COOLED HEAT PUMPS WITH

SCROLL COMPRESSORS AND CENTRIFUGAL FANS



PAE 482 C

PAE...C Series

2 refrigerant circuits - cooling capacities from 47 to 240 kW

Heat pumps suitable for various environments: blocks of flats, offices, shops and factories, etc. etc.

Designed for internal installation

Centrifugal fans

Realized in a strong and compact housing coated with treated and painted zinc steel plate

2 cooling circuits

Summer operating conditions from +15 °C to +45 °C for standard models

Winter operation down to -4 °C

The following versions are available:

PAE...C with centrifugal fans at vertical air flow

PAE...C K version with R407C ecological gas

PAE...C U ultra-silenced version

PAE...C U K ultra-silenced version with R407C ecological gas

PAE...C O with centrifugal fans at horizontal air flow

PAE...C O K version with R407C ecological gas

PAE...C O U ultra-silenced version

PAE...C O U K ultra-silenced version with R407C ecological gas

Made up of:

High-efficiency scroll compressor (COP 3.37 under ARI conditions), with low sound level (on average 6dB(A) less than the hermetic compressors), internal heat protection, installed on rubber vibration dampers, supplied with oil sump heater when necessary.

Heat-exchange external coil with high-efficiency aluminium fins and copper pipe designed for cooling fluids.

Centrifugal fans dragged by electrical motors pulleys/belts system coupled, provided with thermal protection (short circuit and overload) and external safety protection grid.

Weld-brazed plate heat exchanger with heat insulation.

Electric panel, in compliance with CE norms, supplied with a main switch and both overload and short circuit protections at each electrical components.

Each cooling circuit is composed of: 4 way valve for refrigerant circuit reverse, thermostatic expansion valves, dehydrating filter, sight glass, safety device, antifreeze thermostat, high and low pressure switches.

Unit management microprocessor for all models.

Defrost system completely controlled by microprocessor according to time/temperature logic.

The available water accessories, like pump and buffer tank, are installed inside in a housing under the unit including electric control device of the pump.

Compressors hour counter.

Accessories

1M	Higher available pressure for fan
2M	Higher available pressure for fan
AE	Electrical power supply different from standard
BF	Low temperature operation (-20 °C) with inverter fan speed regulation (for summer working operation only)
BFa	Low temperature operation (-20 °C) with inverter fan speed regulation (with 1M option) (for summer working operation only)
BFb	Low temperature operation (-20 °C) with inverter fan speed regulation (with 2M option) (for summer working operation only)
BT	Low temperature operation (-20 °C) with modulating fan speed regulation (for summer working operation only)
BTa	Low temperature operation (-20 °C) with modulating fan speed regulation (with 1M or 2M option) (for summer working operation only)
CF	Soundproofed compressors cabinet (included on ultra-silenced version)
CI	Soundproofing jackets on compressors
CS	Compressors inrush counter
GP	Condensing coil protection grid
IH	RS 485 serial interface
IM	Seawood packing
MF	Phase monitor
MT	High and low pressure gauges
MV	Buffer tank/expansion vessel/safety valve/water gauge/water charge and discharge valves/air discharge valves
P1	Pump group/expansion vessel/safety valve/water gauge/water charge and discharge valves/air discharge valve
P1H	High head pump group/expansion vessel/safety valve/water gauge/water charge and discharge valves/air discharge valve
PT	Twin-pump group/expansion vessel/safety valve /water gauge/water charge and discharge valves/air discharge valve
PA	Rubber-type vibration dampers
PF	Safety water flow switch on evaporator
PQ	Remote microprocessor
RA	Anti-freeze heater on evaporator
RL	Compressors overload relays
RM	Epoxy coating of condensing coil for sea environment
RP	Partial heat recovery
RR	Condensing coil with copper/copper fins
RT	Total heat recovery (available from size 842 – it is necessary to order option BT)
RV	Personalized RAL paint
VB	Brine version (water temperature < 0 °C)
VS	Solenoid valve

HEAT PUMPS R407C – R22

AIR COOLED HEAT PUMPS WITH SCROLL COMPRESSORS AND CENTRIFUGAL FANS

PAE...C Technical data

MODEL	PAE...C	482	562	702	822	842	962	1102	1402	1502	1602	2202	2402	2602
Cooling capacity with R407C	kW	48,1	55,6	67,9	82,7	73,3	83,5	92,7	122	129	145	187	209	222
Absorbed power with R407C	kW	15,4	17,5	22,2	26,6	27,6	31,8	38,0	44,4	50,2	56,0	72	73,4	80
Heating capacity with R407C	kW	57,9	66,6	81,9	100,1	94	108	122	156	168	187	242	263	282
Absorbed power in heating with R407C	kW	16,10	18,20	23,10	27,60	28,7	33,0	39,5	46,2	52,2	58,2	74,9	76,3	83,2
Cooling capacity with R22	kW	50,8	58,7	71,2	89,0	80,5	90,6	103	134	145	158	206	226	242
Absorbed power with R22	kW	14,1	16,1	20,2	23,6	25,3	28,8	34,1	41,2	46,2	49,8	66,5	70,0	76,7
Heating capacity with R22	kW	57,8	69,9	86,2	105,3	103	116	132	172	186	202	264	289	309
Absorbed power in heating with R22	kW	6,2	16,9	21,2	24,8	26,6	28,2	35,9	43,7	48,6	52,4	70,0	73,7	80,7
Centrifugal fans														
Quantity	n	2	2	2	2	3	3	3	4	4	4	4	6	6
Total air flow	l/s	4.139	4.139	6.833	7.278	11.000	10.415	10.415	13.890	13.890	13.330	13.330	20.330	20.330
Total air flow	m³/h	14.900	14.900	24.600	26.200	39.600	37.494	37.494	50.004	50.004	47.988	47.988	73.188	73.188
STD Version														
Available pressure	Pa	80	80	80	80	50	70	70	70	70	100	70	80	80
Rotation speed	rpm	782	919	640	745	920	900	900	915	915	935	900	920	920
Motors power	kW	4,4	8	6	11	12	12	12	16	16	16	16	24	24
Nominal absorbed current	A	10,6	18,8	13,4	24	30,3	30,3	30,3	41,6	41,6	41,6	40,4	60,6	60,6
Sound pressure level 2)	dB(A)	68	71	71	71	76	77	77	77	78	78	78	78	79
1M Version														
Available pressure	Pa	120	120	120	120	100	180	180	190	190	240	240	220	220
Rotation speed	rpm	830	959	669	769	970	1030	1030	1030	1030	1065	1070	1050	1050
Motors power	kW	4,4	8	8	11	12	12	12	16	16	16	16	24	24
Nominal absorbed current	A	10,6	18,8	18,8	24	30,3	30,3	30,3	41,6	41,6	41,6	40,4	60,6	60,6
Sound pressure level 2)	dB(A)	69	71	74	77	78	78	78	79	79	79	80	82	82
2M Version														
Available pressure	Pa	200	200	200	200	260	270	270	350	350	355	360	350	350
Rotation speed	rpm	923	1037	725	819	1110	1100	1100	1170	1170	1170	1175	1170	11170
Motors power	kW	6	8	8	11	16	16	16	22	22	22	22	22	22
Nominal absorbed current	A	13,4	18,8	18,8	24	37	37	37	50	50	50	50	74	74
Sound pressure level 2)	dB(A)	70	72	74	77	79	79	79	80	80	80	81	83	83
Evaporator 3)														
Quantity	n	2	2	2	2	1	1	1	1	1	1	1	1	1
Water flow rate with R407C	l/s	2,31	2,64	3,25	3,94	3,5	4,0	4,4	5,8	6,2	6,9	9,0	10,0	10,6
Water flow rate with R407C	m³/h	8,30	9,50	11,70	14,20	12,61	14,40	15,94	21,02	22,25	24,88	32,22	35,93	38,16
Pressure drop with R407C	kPa	49	48	47	71	21	27	30	49	55	69	47	74	84
Water flow rate with R22	l/s	2,43	2,81	3,39	4,25	3,84	4,33	4,91	6,42	6,91	7,54	9,83	10,80	11,60
Water flow rate with R22	m³/h	2,43	10,10	12,20	15,30	13,82	15,59	17,68	23,11	24,88	27,14	35,39	38,88	41,76
Pressure drop with R22	kPa	50	50	48	73	25	32	37	60	69	82	56	87	100
Pumps														
Available pressure with P1	kPa	132	113	180	107	124	118	110	116	100	76	133	101	86
Motor power with P1	kW	0,75	0,75	1,10	1,10	1,1	1,1	1,1	1,5	1,5	1,5	3	3	3
Available pressure with P1H	kPa	237	223	250	157	159	153	145	161	145	121	183	151	136
Motor power with P1H	kW	1,1	1,1	1,5	1,5	1,5	1,5	1,5	2,2	2,2	2,2	4	4	4
Available pressure with PT	kPa	132	133	135	127	149	138	130	131	110	86	123	86	71
Motor power with PT	kW	1,5	1,5	1,5	1,5	1,5	1,5	1,5	2,2	2,2	2,2	3	3	3
Buffer tank water volume	l	240	240	240	240	720	720	720	720	720	720	720	720	720
Scroll compressors														
Quantity	n	2	2	2	2	2	4	4	4	4	4	4	4	4
Circuits	n	2	2	2	2	2	2	2	2	2	2	2	2	2
Standard steps capacity	n	G2	G2	G2	G2	G2	G2	G2	G2	G2	G2	G2	G2	G2
Optional steps capacity	n	-	-	-	-	-	G4	G4	G4	G4	G4	G4	G4	G4
Nominal absorbed current	A	30,2	32,0	37,8	45,6	47,8	57,4	67,6	76,8	89	93,2	121	126	139
Maximum absorbed current	A	51	63	67	88	107	117	137	190	190	190	214	227	240
Inrush current	A	154	168	207	254	263	227	232	330	330	331	398	429	442
Electrical data														
Total absorbed power with R407C	kW	20	26	28	38	40	44	50	60	66	72	88	97	104
Total absorbed power with R22	kW	19	24	26	35	37	41	46	57	62	66	83	94	101
Total nominal absorbed current	A	41	51	51	70	78	88	98	118	131	135	161	187	200
Total maximum absorbed current	A	62	82	80	112	137	147	167	232	232	232	254	288	301
Total inrush current	A	165	187	220	278	293	257	262	372	372	373	438	490	503
Dimensions														
Length	mm	2.120	2.120	2.280	2.280	2.610	2.610	2.610	3.460	3.460	3.460	3.460	5.150	5.150
Length with MV included	mm	2.280	2.280	2.280	2.280	3.460	3.460	3.460	4.305	4.305	4.305	4.305	5.995	5.995
Width	mm	778	778	990	990	1.245	1.245	1.245	1.245	1.245	1.245	1.245	1.245	1.245
Width with MV included	mm	990	990	990	990	1.245	1.245	1.245	1.245	1.245	1.245	1.245	1.245	1.245
Height	mm	1.570	1.570	1.845	1.845	1.995	1.995	1.995	1.995	1.995	1.995	1.995	1.995	1.995
Height with MV included	mm	1.995	1.995	2.270	2.270	1.995	1.995	1.995	1.995	1.995	1.995	1.995	1.995	1.995
Weight	kg	789	821	898	976	1.334	1.450	1.456	1.800	1.840	1.940	2.000	2.450	2.540
Weight with empty MV included	kg	1.019	1.051	1.128	1.206	1.364	1.680	1.686	2.030	2.070	2.170	2.230	2.680	2.770
Refrigerant charge for each circuit	kg	8	8	10	12	14	17	17	26	31	31	31	35	35
Refrigerant charge for each circuit - opt. 0	kg	-	-	-	-	14	14	14	29	29	29	35	40	40

-- = not available

Nominal conditions referred to:

Summer work mode: air 35 °C - chilled water 7/12 °C

Winter work mode: air 10 °C - warmed water 40/45 °C

2) Measured at 1 m in open field (ISO 3746) with air suction and air discharge in ducts

In case an even higher available pressure is required, different from what stated above but anyway not higher than 2M, the option 1M &/or 2M must be ordered, stating clearly on the order the pressure value effectively requested on site. The factory will adjust the motor's pulley accordingly.

Notes: Option BT allows summer operation of units (therefore with chilled water production) with external temperature lower than 15 °C

3) P = Brazed plate - FT = Shell & tube

HEAT PUMPS R407C – R22

AIR COOLED HEAT PUMPS WITH

SCROLL COMPRESSORS AND CENTRIFUGAL FANS

PAE...CU Technical data

MODEL	PAE...CU	482	562	702	842	962	1102	1402	1502	1602	2202	2402	2602
Cooling capacity with R407C	kW	48,1	55,6	67,9	74,6	84	94,5	126	137	147	191	212	225
Absorbed power with R407C	kW	15,4	17,5	22,2	28,2	32,8	38,2	43,8	49,1	57,2	72,4	75,2	82,2
Heating capacity with R407C	kW	57,9	66,6	81,9	95,5	107,5	121,0	161,3	175,4	188,2	244,5	271,4	105,2
Absorbed power in heating with R407C	kW	16,1	18,2	23,1	29,3	34,1	39,7	45,5	51,5	60,0	75,3	78,2	85,5
Cooling capacity with R22	kW	50,8	58,7	71,2	79,4	92,4	103	140	145	157	204	225	240
Absorbed power with R22	kW	14,1	16,1	20,2	25,5	29,6	34,3	40,6	45,4	50,4	66,5	71	77,9
Heating capacity with R22	kW	57,8	69,9	86,2	94	107	121	154	169	187	241	262	336
Absorbed power in heating with R22	kW	6,2	16,9	21,2	26,8	31,0	36,0	42,6	47,7	52,9	69,8	74,5	81,8
Centrifugal fans													
Quantity	n	2	2	2	3	3	4	6	6	6	6	8	8
Total air flow	l/s	4.139	4.139	6.833	5.920	8.000	8.000	12.170	12.170	12.170	11.330	15.110	15.110
Total air flow	m³/h	14.900	14.900	24.600	21.312	28.800	28.800	43.812	43.812	43.812	40.788	54.396	54.396
STD Version													
Available pressure	Pa	80	80	80	60	70	70	70	70	70	100	100	100
Rotation speed	rpm	782	919	640	590	760	590	610	610	610	650	650	650
Motors power	kW	4,4	8	6	3,3	6,6	4,4	6,6	6,6	6,6	6,6	8,8	8,8
Nominal absorbed current	A	10,6	18,8	13,4	9,6	16,5	12,8	19,2	19,2	19,2	19,2	25,6	25,6
Sound pressure level 2)	dB(A)	68	71	71	63	70	62	67	67	67	66	67	67
1M Version													
Available pressure	Pa	120	120	120	160	190	160	250	250	250	250	250	250
Rotation speed	rpm	830	959	669	750	890	720	880	880	880	870	870	870
Motors power	kW	4,4	8	8	3,3	6,6	4,4	9	9	9	9	12	12
Nominal absorbed current	A	10,6	18,8	18,8	9,6	16,5	12,8	25,2	25,2	25,2	25,2	33,6	33,6
Sound pressure level 2)	dB(A)	69	71	74	70	73	70	73	73	74	75	79	79
2M Version													
Available pressure	Pa	200	200	200	250	270	270	360	360	360	370	370	370
Rotation speed	rpm	923	1037	725	870	975	870	1015	1015	1015	1015	1015	1015
Motors power	kW	6	8	8	4,5	9	6	13,2	13,2	13,2	13,2	17,6	17,6
Nominal absorbed current	A	13,4	18,8	18,8	12,6	22,5	16,8	33	33	33	33	44	44
Sound pressure level 2)	dB(A)	70	72	74	71	74	71	74	74	74	75	79	79
Evaporator 3)													
Quantity	n	2	2	2	1	1	1	1	1	1	1	1	1
Water flow rate with R407C	l/s	2,31	2,64	3,25	3,56	4,01	4,52	6,02	6,52	7,02	9,13	10,13	10,70
Water flow rate with R407C	m³/h	8,30	9,50	11,70	12,82	14,45	16,27	21,67	23,47	25,27	32,87	36,47	38,52
Pressure drop with R407C	kPa	49	48	47	20	26	29	49	58	67	46	72	81
Water flow rate with R22	l/s	2,43	2,81	3,39	1,22	1,41	5,07	6,67	2,17	7,73	10,03	11,09	11,84
Water flow rate with R22	m³/h	2,43	10,10	12,20	4,39	5,08	18,25	24,01	7,81	27,83	36,11	39,92	42,62
Pressure drop with R22	kPa	50	50	48	24	31	37	61	69	75	55	86	80
Pumps													
Available pressure with P1	kPa	132	113	180	124	118	110	120	97	83	133	101	86
Motor power with P1	kW	0,75	0,75	1,10	1,1	1,1	1,1	1,5	1,5	1,5	3	3	3
Available pressure with P1H	kPa	237	223	250	159	153	145	175	142	133	183	151	136
Motor power with P1H	kW	1,1	1,1	1,5	1,5	1,5	1,5	2,2	2,2	2,2	4	4	4
Available pressure with PT	kPa	132	133	135	149	138	130	135	107	93	123	86	71
Motor power with PT	kW	1,5	1,5	1,5	1,5	1,5	1,5	2,2	2,2	2,2	3	3	3
Buffer tank water volume	l	240	240	240	720	720	720	720	720	720	720	720	720
Scroll compressors													
Quantity	n	2	2	2	2	4	4	4	4	4	4	4	4
Circuits	n	2	2	2	2	2	2	2	2	2	2	2	2
Standard steps capacity	n	G2	G2	G2	G2	G2	G2	G2	G2	G2	G2	G2	G2
Optional steps capacity	n	-	-	-	-	G4	G4	G4	G4	G4	G4	G4	G4
Nominal absorbed current	A	30,2	32,0	37,8	48,8	58,8	68	75,8	87	95	121	129	141
Maximum absorbed current	A	51	63	67	107	117	137	190	190	190	214	227	240
Inrush current	A	154	168	207	263	227	232	330	330	331	398	429	442
Electrical data													
Total absorbed power with R407C	kW	19,8	25,5	28,2	31,5	39,4	42,6	50,4	55,7	63,8	79,0	84,0	91,0
Total absorbed power with R22	kW	18,5	24,1	26,2	28,8	36,2	38,7	47,2	52,0	57,0	73,1	79,8	86,7
Total nominal absorbed current	A	41	51	51	58	75	81	95	106	114	140	155	167
Total maximum absorbed current	A	62	82	80	117	134	150	209	209	209	233	253	266
Total inrush current	A	165	187	220	273	244	245	349	349	350	417	455	468
Dimensions													
Length	mm	2.120	2.120	2.280	2.610	2.610	3.460	5.150	5.150	5.150	5.150	6.840	6.840
Length with MV included	mm	2.280	2.280	2.280	3.460	3.460	4.305	5.995	5.995	5.995	5.995	6.840	6.840
Width	mm	778	778	990	1.245	1.245	1.245	1.245	1.245	1.245	1.245	1.245	1.245
Width with MV included	mm	990	990	990	1.245	1.245	1.245	1.245	1.245	1.245	1.245	1.245	1.245
Height	mm	1.570	1.570	1.845	1.995	1.995	1.995	1.995	1.995	1.995	1.995	1.995	1.995
Height with MV included	mm	1.995	1.995	2.270	1.995	1.995	1.995	1.995	1.995	1.995	1.995	1.995	1.995
Weight	kg	789	821	898	1.334	1.449	1.757	2.485	2.525	2.535	2.700	3.000	3.020
Weight with empty MV included	kg	1.019	1.051	1.128	1.564	1.679	1.987	2.715	2.755	2.765	2.930	3.230	3.250
Refrigerant charge for each circuit	kg	8	8	10	17	17	26	44	44	44	35	45	45
Refrigerant charge for each circuit - opt. 0	kg	-	-	-	14	14	29	48	48	48	35	45	45

400V/50Hz/3 Ph+T+N

- = not available

Nominal conditions referred to:

Summer work mode: air 35 °C - chilled water 7/12 °C

Winter work mode: air 10 °C - warmed water 40/45 °C

2) Measured at 1 m in open field (ISO 3746) with air suction and air discharge in ducts

In case an even higher available pressure is required, different from what stated above but anyway not higher than 2M, the option 1M &/or 2M must be ordered, stating clearly on the order the pressure value effectively requested on site. The factory will adjust the motor's pulley according.

Notes: Option BT allows summer operation of units (therefore with chilled water production) with external temperature lower than 15 °C

3) P = Brazed plate - FT = Shell & tube

CORRECTION FACTOR FOR COOLING CAPACITY R407C - R22

		External air temperature °C									
		28	30	32	35	38	40	42	45	48	
Water evaporator outlet °C	15	1,433	1,404	1,376	1,333	1,289	1,260	1,226	1,175	1,137	
	14	1,388	1,360	1,333	1,291	1,249	1,221	1,187	1,137	1,099	
	13	1,343	1,317	1,290	1,250	1,209	1,182	1,148	1,099	1,062	
	12	1,298	1,273	1,247	1,208	1,169	1,142	1,110	1,060	1,024	
	11	1,253	1,229	1,204	1,166	1,128	1,103	1,071	1,022	0,987	
	10	1,028	1,185	1,161	1,125	1,088	1,064	1,032	0,984	0,949	
	9	1,163	1,141	1,118	1,087	1,048	1,025	0,993	0,946	0,912	
	8	1,118	1,097	1,075	1,041	1,008	0,985	0,954	0,907	0,874	
	7	1,073	1,053	1,032	1	0,968	0,946	0,915	0,869	0,837	
	6	1,027	1,007	0,986	0,956	0,925	0,904	0,873	0,827	0,800	
	5	0,981	0,961	0,941	0,911	0,882	0,862	0,831	0,785	0,763	

CORRECTION FACTOR FOR ABSORBED CAPACITY R407C - R22

		External air temperature °C									
		28	30	32	35	38	40	42	45	48	
Water evaporator outlet °C	15	0,981	1,013	1,046	1,100	1,155	1,192	1,232	1,292	1,345	
	14	0,968	1,001	1,033	1,088	1,143	1,179	1,219	1,279	1,335	
	13	0,955	0,988	1,020	1,075	1,130	1,167	1,207	1,267	1,324	
	12	0,942	0,975	1,008	1,063	1,118	1,154	1,194	1,255	1,314	
	11	0,929	0,962	0,995	1,050	1,105	1,142	1,182	1,242	1,304	
	10	0,916	0,949	0,982	1,037	1,093	1,129	1,170	1,230	1,294	
	9	0,903	0,936	0,970	1,025	1,080	1,117	1,157	1,218	1,283	
	8	0,890	0,924	0,957	1,012	1,067	1,104	1,145	1,206	1,273	
	7	0,877	0,911	0,944	1	1,055	1,092	1,132	1,193	1,263	
	6	0,872	0,904	0,937	0,987	1,037	1,071	1,110	1,169	1,232	
	5	0,866	0,898	0,929	0,974	1,020	1,050	1,088	1,145	1,201	

CORRECTION FACTOR FOR HEATING CAPACITY R407C - R22

		Outlet water temperature °C				
		30	35	40	45	48
Outlet water temperature °C	20	1,415	1,392	1,367	1,315	1,284
	16	1,261	1,241	1,220	1,195	1,180
	14	1,195	1,176	1,155	1,127	1,110
	12	1,127	1,108	1,088	1,068	1,056
	10	1,066	1,047	1,026	1	0,984
	8	1,005	0,986	0,987	0,947	0,923
	7	0,976	0,985	0,939	0,919	0,907
	6	0,904	0,893	0,870	0,852	0,841
	4	0,802	0,793	0,772	0,761	0,754
	2	0,741	0,732	0,712	0,701	0,694
	0	0,690	0,677	0,659	0,649	0,643
	-2	0,655	0,639	0,630	0,611	0,600
	-4	0,627	0,614	0,609	0,599	0,593

CORRECTION FACTOR FOR ABSORBED CAPACITY R407C - R22

		Outlet water temperature °C				
		30	35	40	45	48
Outlet water temperature °C	20	0,909	0,994	1,076	1,160	1,210
	16	0,861	0,938	1,015	1,091	1,137
	14	0,843	0,916	0,998	1,061	1,159
	12	0,826	0,895	0,963	1,030	1,070
	10	0,807	0,872	0,936	1	1,038
	8	0,789	0,850	0,910	0,969	1,004
	7	0,780	0,839	0,897	0,953	0,987
	6	0,770	0,826	0,883	0,938	0,971
	4	0,749	0,803	0,856	0,906	0,936
	2	0,729	0,778	0,828	0,874	0,902
	0	0,706	0,753	0,799	0,843	0,869
	-2	0,687	0,728	0,768	0,810	0,785
	-4	0,663	0,701	0,738	0,775	0,753

If the machine runs with evaporator water outlet temperature below 5 °C it is absolutely necessary to use a mixture of water and glycol in the percentages listed in the table shown at the relevant section of the present catalogue.
Emicon AC SpA disclaims all responsibilities in case of damages deriving from violation of these instructions.
For further clarifications or informations, you are kindly request to contact our sales department.

N.B.
The listed coefficients are mean values referred to different units, so the performances calculated by the tables could be different up to 5% from the data for a specific unit.