AIR

Centrifugal fan coil unit

2019-1

Technical manual

A GROUP S.p.A. partecipa al programma Eurovent di Certificazione delle prestazioni dei ventilconvettori in modo da garantire ai propri clienti l'affidabilità e la veridicità delle prestazioni dichiarate.

A GROUP S.p.A. takes part to the Eurovent program of fan coil performance certification in order to provide its customers the reliability and accuracy of performances.

IT EN DEU FRA ESP РУС	**DICHIARAZIONE DI CONFORMITÀ** **DECLARATION OF CONFORMITY** **KONFORMITÄTSERKLÄRUNG** **DÉCLARATION DE CONFORMITÉ** **DECLARACIÓN DE CONFORMIDAD** **ДЕКЛАРАЦИЯ СООТВЕТСТВИЯ**	CE	**A GROUP S.p.A.** - Via Monte Grappa, 67 31020 San Zenone degli Ezzelini (Treviso) Italy Tel. +39 0423 969037 - Fax +39 0423 968197 info@ventilclima.com - www.aliseogroup.com

Tipo apparecchio / Type of equipment / Art des Geräts / Type d'appareil / Tipo de equipo / Тип аппарата

VENTILCONVETTORE CENTRIFUGO / CENTRIFUGAL FAN COIL UNIT / ZENTRIFUGAL KLIMAKONVEKTOREN VENTILO-CONVECTEURS CENTRIFUGE / VENTILOCONVECTORE CENTRÍFUGO / ФАНКОЙЛЫ С ЦЕНТРОБЕЖНЫМИ ВЕНТИЛЯТОРАМИ

Modello / Type designation / Modell / Modéle / Modelo / Модель

AIR (serie/series/Reihe/série/serie/серия)

Costruttore / Manufacturer / Hersteller / Fabricant / Fabricante / Изготовитель

A GROUP S.p.A.

Indirizzo / Address / Anschrift / Adresse / Dirección / Адрес

via Monte Grappa, 67 - 31020 - San Zenone degli Ezzelini (Treviso) - Italy

In accordo con le Direttive: According to the Directive: In Übereinstimmung mit Richtlinie: En conformité avec la Directive: De conformidad con la Directiva: Согласно требований Директивы:	**2014/35/EU** Bassa Tensione Low Voltage Niederspannungs Basse Tension Baja Tensión Низковольтному оборудованию	**2014/30/EU** Compatibilità Elettromagnetica Electromagnetic compatibility Elektromagnetische Verträglichkeit Compatibilité Électromagnétique Compatibilidad Electromagnética Электромагнитной совместимости	**2011/65/EU** RoHs (Restriction of Hazardous Substances)

Le norme armonizzate o le specifiche tecniche (designazioni) che sono state applicate in accordo con le regole della buona arte in materia di sicurezza in vigore nella CEE sono:
The following harmonised standards or technical specifications (designations) which comply with good engineering practice in safety matters in force within the EEC have been applied:
Bei den harmonisiert Normen oder technischen Spezifikationen (Bestimmungen), die in Übereinstimmung mit den in der EWG geltenden einschlägigen Sicherheitsvorschriften angewandt worden sind, handelt es sich um folgende:
Les normes harmonisée ou les spécifications techniques (désignations) qui ont été appliquées en conformité avec les régles de l'art en matiére de sécurité en vigneur dans la CEE sont les suivantes:
Las normas harminizadas o las características técnicas (designación) que han sido aplicadas de conformidad con las reglas del arte en concepto de seguridad en vigor en la CEE son:
Были использованы следующие унифицированные стандарты или тех. спецификации (указания) согласно принятых в ЕЭС правил по вопросам безопасности:

EN60335-1: 2012 +EC: 2014 +A11: 2014
EN 60335-2-40: 2003 +A1: 2009 +A12: 2005 +A2: 2009 +A13: 2012 / EC: 2013 +A11: 2004
EN 55014-1: 2006 +A1: 2009 +A2: 2011
EN 55014-2: 1997 +A1: 2001 +A2: 2008
EN 61000-3-2: 2014
EN61000-3-3: 2013
EN 50581: 2012
EN 62233: 2009

In qualità di costruttore e/o rappresentante autorizzato della società all'interno della CEE, si dichiara, sotto la propria responsabilità, che gli apparecchi sono conformi alle esigenze essenziali previste dalle Direttive su menzionate.
As the manufacturer's authorised representative estabilished within EEC, we declare under out sole responsability that the equipment follows the provisions of the Directives stated above.
In meiner Eigenschaft als Hersteller und/oder bevollmächtigter Vertreter der innerhalb der EWG tätigen Firma erkläre ich hiermit eigenverantwortlich, dass die Geräte den grundsätzlichen, von den oben erwähnten Richtlinien geforderten Anforderungen entsprechen.
En qualité de fabricant et/ou représentant autorisé de la société à l'intérieur de la CEE, nous déclarons sous notre propre responsabilité que les appareils sont conformes aux conditions essentielles requises par les Directives susmentionnées.
En calidad de fabricante y/o representante autorizado de la empresa en el ámbito de la CEE, se hace constar bajo la propia responsabilidad que los equipos se ajustan a las exigencias esenciales contempladas por las referidas Directivas.
В качестве изготовителя и/или представителя, уполномоченного компанией в рвмках ЕЭС, заявляем под нашу ответственность, что аппараты отвечают основным требованиям вышеуказанных Директив.

Data e luogo di emissione: Date and place of issue: Ausstellungsort und Datum: Date et lieu d'émission: Fecha y lugar de emisión: Дата и место составления:	**01-2017** **San Zenone degli Ezzelini (TV)**	Nome e firma di persona autorizzata: Name e signature of authorised person: Name und Unterschrift der bevollmächtigten Person: Nom et signature de la personne autorisée: Nombre y firma de la persona autorizada: Имя и подпись уполномоченного лица Подпись: **Boaro Francesco** ***(chairman)***

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INTRODUCTION

GENERAL DESCRIPTION

The AIR series fan coil unit is a terminal which uses warm water for heating in winter and refrigerated water for cooling in summer, generating a thermal exchange between a bank of finned tubes and a forced air flow originating from one or more fans. The units may be installed both vertically or horizontally with cabinet in case of exposed versions, or enclosed in a recess or on the drop ceiling. Thanks to the wide range of accessories, we can meet all the installation and air handling requirements.

Main components:
- metal structure; - one or more block of finned tubes (generally water-operated);
- one or more fans activated by one or more electric motors;
- a drain pan for summer use;
- an air filter;

The Air series fan coil units have been specifically designed for summer and winter air conditioning in both residential and commercial buildings (office premises, hotels, etc.) and thanks to their beautiful and innovative design they are suitable to be installed anywhere in the room and they perfectly integrate with modern style furniture.

FANS
Centrifugal fan with double-inlet aluminium or plastic impellers with long blades to achieve a high airflow with a low rotation speed.

COIL
Coil made of copper pipe expanded into aluminium fins in continuous block. Brass headers with female fittings (GAS threads) and easily accessible air vents.

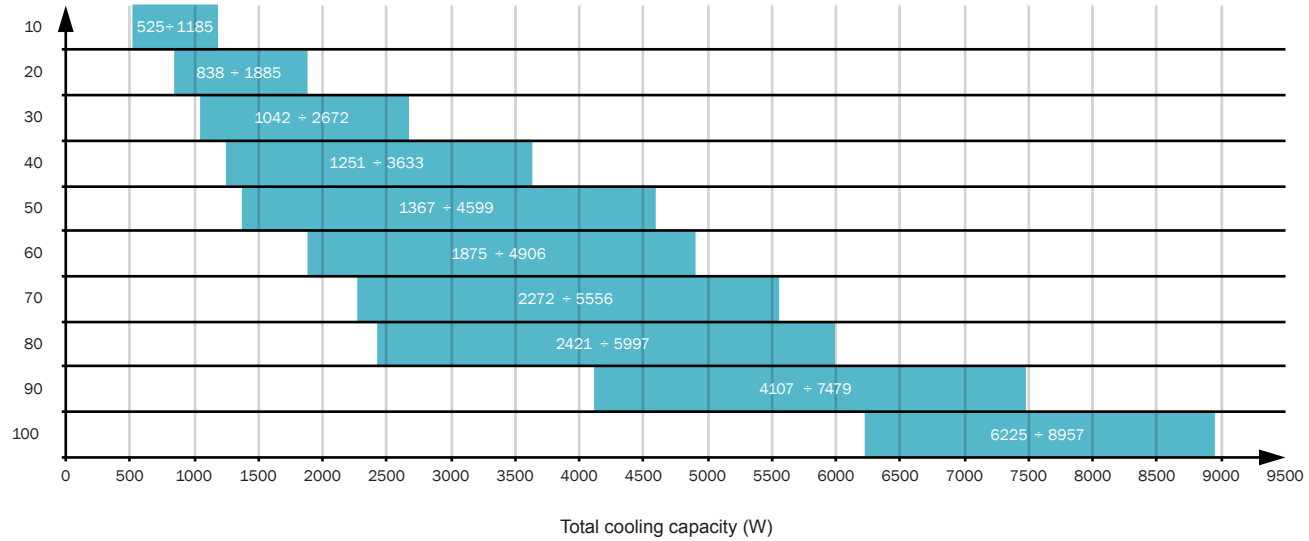
DRAIN PAN
Insulated main pan in black prepainted galvanised steel sheet for condensate collection, equipped with drain plug for complete drainage and thermally insulated by a self-stick mat in closed cell polyurethane foam 3-mm thick.

AIR FILTER
Standard honeycomb polypropylene air filter, filtration level G1.

UNIT OVERVIEW

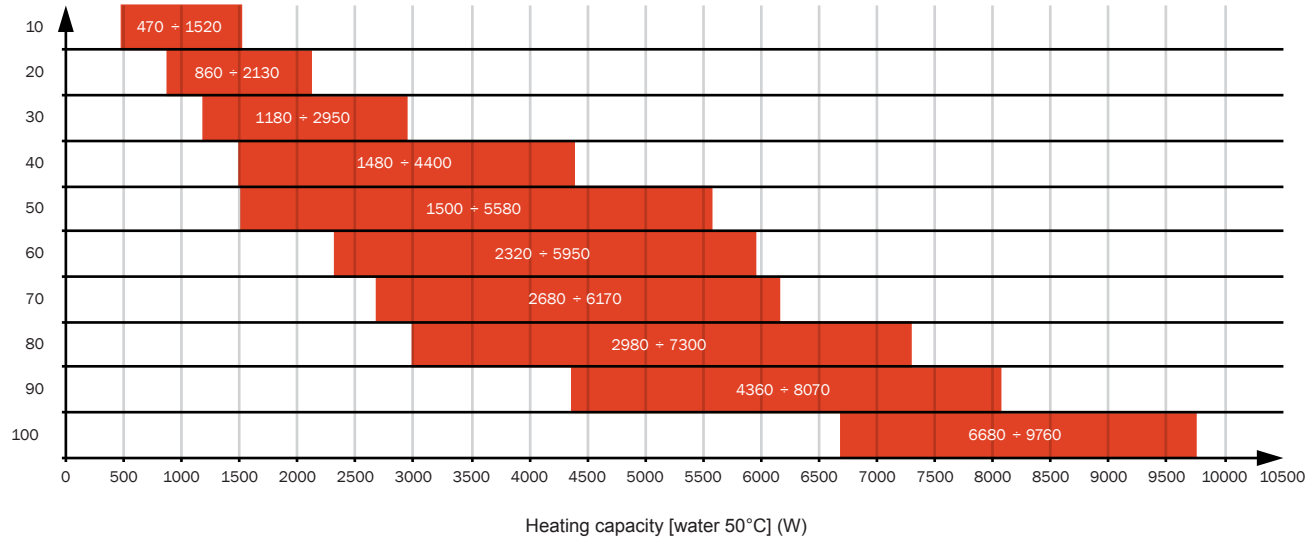
TOTAL COOLING CAPACITY

Inlet water temp.: 7°C
Outlet water temp.: 12°C
Inlet air temp.: 27°C d.b. - 19°C w.b.
(EN 1397)



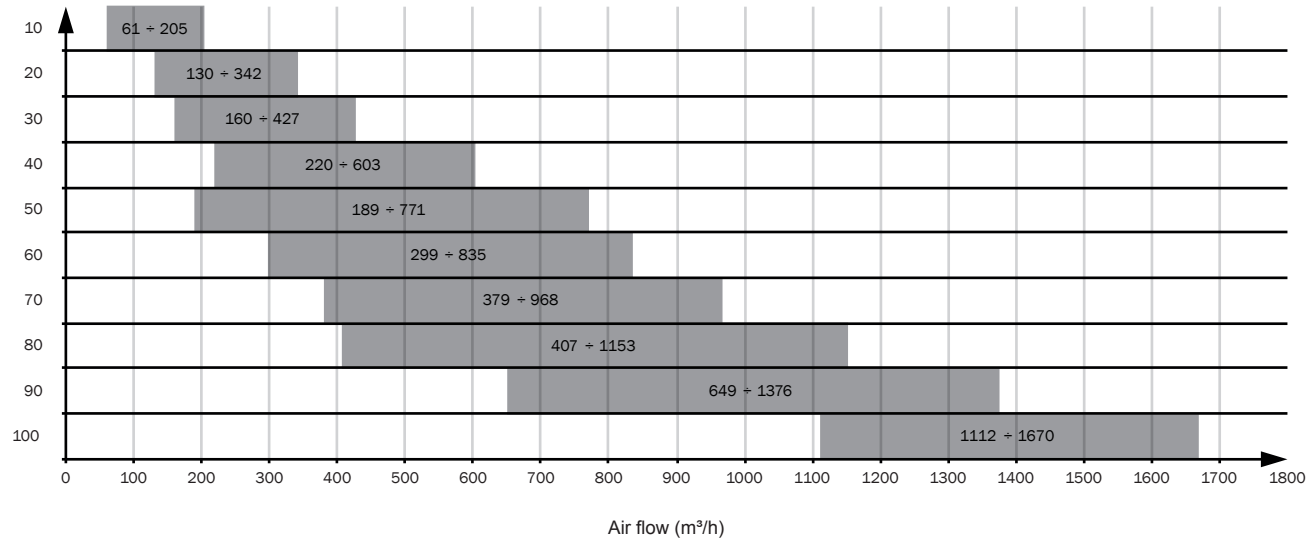
HEATING CAPACITY

Air temp.: 20°C
Inlet water temp.: 45/40°C
(EN 1397)



AIR FLOW

(EN 1397)



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TECHNICAL DATA

GENERAL TECHNICAL DATA

2 PIPE SYSTEM (3R COIL)						10	20	30	40	50	60	70	80	90	100
COOLING Inlet water temp.: 7 °C Outlet water temp.: 12 °C Inlet air temp.: 27° C d.b. - 19 °C w.b. (EN 1397)	Total cooling capacity		W	6	1185	1885	2672	3633	4599	4906	5556	5997	7479	8957
			W	5	916	1685	2285	2801	3308	3950	4482	5264	6671	8535
		(E)	W	4	**781**	**1298**	**1906**	**2322**	**2682**	**3139**	**3773**	**4150**	**5785**	**7739**
		(E)	W	3	**694**	**1142**	**1691**	**1930**	**2231**	**2620**	**3168**	**3379**	**4957**	**7159**
		(E)	W	2	**618**	**967**	**1455**	**1615**	**1710**	**2089**	**2527**	**2744**	**4255**	**6413**
			W	1	525	838	1042	1251	1367	1875	2272	2421	4107	6225
	Sensible cooling capacity		W	6	925	1385	1972	2673	3569	3586	4086	4717	6279	7227
			W	5	726	1235	1665	2021	2508	2840	3252	4104	5511	6885
		(E)	W	4	**631**	**928**	**1376**	**1662**	**2012**	**2229**	**2713**	**3122**	**4745**	**6479**
		(E)	W	3	**554**	**822**	**1221**	**1360**	**1641**	**1850**	**2268**	**2509**	**4037**	**5959**
		(E)	W	2	**478**	**697**	**1045**	**1140**	**1240**	**1469**	**1777**	**2014**	**3435**	**5293**
			W	1	380	598	762	871	997	1315	1612	1771	3097	4905
	Water flow		l/h	6	215	331	468	636	806	859	973	1056	1320	1576
			l/h	5	172	295	400	489	579	691	785	927	1174	1501
			l/h	4	137	227	334	405	469	549	659	729	1014	1361
			l/h	3	122	200	295	336	390	458	553	595	868	1260
			l/h	2	108	169	255	282	300	364	441	483	744	1129
			l/h	1	100	146	183	218	238	328	397	426	718	1095
	Water pressure drop		kPa	6	5,9	16,3	36,6	24,0	42,0	23,9	17,9	20,6	33,8	37,6
			kPa	5	4,0	13,3	27,7	15,1	23,5	16,3	12,2	16,4	27,5	34,4
		(E)	kPa	4	**3,1**	**8,4**	**20,2**	**10,8**	**17,9**	**10,8**	**9,0**	**11,5**	**26,1**	**28,8**
		(E)	kPa	3	**2,5**	**6,7**	**16,3**	**7,8**	**12,7**	**7,9**	**6,6**	**8,0**	**20,0**	**25,0**
		(E)	kPa	2	**2,0**	**5,0**	**12,5**	**5,7**	**7,9**	**5,3**	**4,4**	**5,6**	**15,6**	**20,7**
			kPa	1	1,5	3,8	7,0	3,6	4,9	4,4	3,7	4,2	11,6	16,0
HEATING Air temp.: 20 °C Inlet water temp.: 45/40 °C (EN 1397)	Heating capacity		W	6	1520	2130	2950	4400	5580	5950	6170	7300	8070	9790
			W	5	1160	1860	2500	3340	3930	4710	4920	6360	7130	9290
		(E)	W	4	**950**	**1390**	**2060**	**2560**	**3160**	**3480**	**4080**	**4820**	**6250**	**8580**
		(E)	W	3	**790**	**1230**	**1810**	**2130**	**2650**	**2920**	**3450**	**3890**	**5440**	**7930**
		(E)	W	2	**620**	**970**	**1580**	**1820**	**1980**	**2400**	**2940**	**3280**	**4660**	**7060**
			W	1	470	860	1180	1480	1500	2320	2680	2890	4360	6680
	Water flow		l/h	6	264	372	513	767	973	1036	1075	1271	1407	1705
			l/h	5	201	324	436	582	685	821	857	1107	1242	1619
			l/h	4	167	243	359	446	551	607	711	840	1089	1495
			l/h	3	126	214	315	370	462	508	601	677	948	1382
			l/h	2	102	170	275	317	348	419	513	571	811	1229
			l/h	1	82	150	206	257	266	403	467	504	759	1165
	Water pressure drop		kPa	6	7,0	16,5	35,5	27,5	48,2	27,4	17,6	23,6	43,1	35,6
			kPa	5	4,4	12,9	26,6	16,9	26,0	18,2	11,8	18,5	34,3	32,4
		(E)	kPa	4	**3,5**	**7,8**	**18,9**	**10,6**	**17,7**	**10,7**	**8,5**	**11,4**	**19,9**	**22,9**
		(E)	kPa	3	**2,3**	**6,3**	**15,0**	**7,6**	**13,0**	**7,8**	**6,3**	**7,8**	**15,6**	**19,9**
		(E)	kPa	2	**1,6**	**4,1**	**11,8**	**5,8**	**7,9**	**5,6**	**4,8**	**5,8**	**11,8**	**16,2**
			kPa	1	0,9	3,3	7,1	4,0	4,9	5,2	4,0	4,6	10,5	14,8
HEATING Air temp.: 20 °C Inlet water temp.: 50 °C	Heating capacity		W	6	1770	2530	3500	5180	6570	7000	7340	8580	9630	11650
			W	5	1360	2210	2980	3940	4650	5560	5850	7480	8510	11070
			W	4	1120	1660	2460	3050	3740	4150	4870	5710	7450	10200
			W	3	870	1470	2160	2530	3140	3470	4110	4610	6480	9430
			W	2	710	1170	1880	2160	2370	2850	3490	3880	5550	8400
			W	1	580	1030	1410	1750	1820	2730	3170	3420	5210	7980
	Water flow		l/h	6	215	331	468	636	806	859	973	1056	1320	1576
			l/h	5	172	295	400	489	579	691	785	927	1174	1501
			l/h	4	137	227	334	405	469	549	659	729	1014	1361
			l/h	3	122	200	295	336	390	458	553	595	868	1260
			l/h	2	108	169	255	282	300	364	441	483	744	1129
			l/h	1	100	146	183	218	238	328	397	426	718	1095
	Water pressure drop		kPa	6	4,8	13,3	29,8	19,6	34,2	19,5	14,6	16,8	38,1	30,6
			kPa	5	3,3	10,9	22,6	12,3	19,1	13,3	10,0	13,4	30,7	28,0
			kPa	4	2,5	6,9	16,4	8,8	14,6	8,8	7,3	9,3	21,3	23,5
			kPa	3	1,8	5,5	13,2	6,4	10,4	6,4	5,4	6,5	16,2	20,5
			kPa	2	1,4	4,0	10,2	4,7	6,4	4,3	3,6	4,5	12,4	16,9
			kPa	1	1,2	3,1	5,7	3,0	4,0	3,6	3,0	3,4	9,4	13,1
	Air flow		m^3/h	6	205	342	427	603	771	835	968	1153	1376	1670
			m^3/h	5	150	295	364	439	510	650	753	1001	1198	1604
			m^3/h	4	120	211	292	359	398	503	619	728	1002	1511
			m^3/h	3	100	184	256	295	336	419	519	586	865	1395
			m^3/h	2	78	153	221	249	249	344	421	476	736	1224
			m^3/h	1	61	130	160	220	189	299	379	407	649	1112
	Sound power level		dB(A)	6	48	51	51	53	54	54	57	62	62	65
			dB(A)	5	41	47	47	45	46	49	52	59	59	64
		(E)	dB(A)	4	**38**	**40**	**43**	**40**	**40**	**43**	**46**	**51**	**55**	**62**
		(E)	dB(A)	3	**35**	**36**	**39**	**35**	**36**	**38**	**41**	**45**	**51**	**60**
		(E)	dB(A)	2	**29**	**33**	**36**	**31**	**30**	**33**	**37**	**40**	**47**	**57**
			dB(A)	1	24	28	29	25	25	30	34	38	43	55
	Sound pressure level		dB(A)	6	39	42	42	44	45	45	48	53	53	56
			dB(A)	5	32	38	38	36	37	40	43	50	50	55
			dB(A)	4	29	31	34	31	31	34	37	42	46	53
			dB(A)	3	26	27	30	26	27	29	32	36	42	51
			dB(A)	2	20	24	27	22	21	24	28	31	38	48
			dB(A)	1	15	19	20	16	16	21	25	29	34	46

- Standard unit with free outlet: external static pressure = 0 Pa
- The sound power level test has to be performed according to EN 16583:2015 standard
- Sound pressure level: 8,6 dB(A) lower that the sound power level for a room of 90 m^3 with a reverberation time of 0,5 sec.
- Supported power supply: ~230V / 1ph / 50-60Hz

TECHNICAL DATA

GENERAL TECHNICAL DATA

4 PIPE SYSTEM (3R+1 COIL)					10	20	30	40	50	60	70	80	90	100
COOLING Inlet water temp.: 7 °C Outlet water temp.: 12 °C Inlet air temp.: 27 °C d.b. - 19 °C w.b.	Total cooling capacity		W	6	1195	1695	2612	3563	4579	4816	5206	6227	8319	8877
			W	5	956	1545	2245	2751	3348	3880	4332	5474	7361	8475
		(E)	W	4	**830**	**1158**	**1876**	**2272**	**2687**	**3079**	**3223**	**4072**	**6395**	**7709**
		(E)	W	3	**734**	**1012**	**1651**	**1890**	**2226**	**2570**	**2708**	**3349**	**5490**	**7169**
		(E)	W	2	**658**	**867**	**1425**	**1585**	**1710**	**2049**	**2157**	**2744**	**4705**	**6408**
			W	1	550	788	1022	1231	1417	1835	2062	2481	4277	6225
	Sensible cooling capacity		W	6	915	1245	1802	2623	3499	3776	4446	4617	6169	6627
			W	5	726	1135	1535	1981	2468	2790	3602	4024	5411	6315
		(E)	W	4	**621**	**908**	**1356**	**1622**	**1982**	**2189**	**2658**	**3057**	**4655**	**5759**
		(E)	W	3	**534**	**797**	**1196**	**1340**	**1621**	**1820**	**2218**	**2469**	**3957**	**5319**
		(E)	W	2	**468**	**687**	**1030**	**1115**	**1220**	**1439**	**1747**	**1969**	**3365**	**4698**
			W	1	380	558	692	871	967	1285	1672	1751	3037	4555
	Water flow		l/h	6	211	333	459	625	836	844	914	1094	1463	1577
			l/h	5	169	289	393	480	602	679	758	962	1292	1501
			l/h	4	147	195	327	397	464	539	564	711	1119	1362
			l/h	3	130	174	289	329	401	451	473	606	958	1259
			l/h	2	115	150	249	277	305	359	381	492	823	1130
			l/h	1	96	144	178	214	245	322	360	435	746	1096
	Water pressure drop		kPa	6	3,5	15,8	30,4	23,2	38,8	23,2	16,0	22,0	40,6	30,5
			kPa	5	2,4	12,8	24,0	14,6	25,1	15,8	11,5	17,5	32,6	28,0
		(E)	kPa	4	**1,8**	**7,6**	**18,7**	**10,1**	**17,0**	**10,0**	**8,4**	**11,0**	**25,0**	**24,0**
		(E)	kPa	3	**1,5**	**6,0**	**15,1**	**7,2**	**11,9**	**7,3**	**6,2**	**7,7**	**18,9**	**20,0**
		(E)	kPa	2	**1,1**	**4,5**	**11,6**	**5,3**	**7,4**	**4,9**	**4,1**	**5,5**	**14,4**	**17,0**
			kPa	1	0,7	3,7	8,9	3,5	5,2	4,2	3,1	4,3	12,4	16,1
HEATING Air temp.: 20 °C Inlet water temp.: 65/55 °C	Heating capacity		W	6	1110	1800	2560	2860	4190	4370	4830	5290	7050	7520
			W	5	910	1610	2270	2320	3240	3620	4100	4840	6390	7120
		(E)	W	4	**760**	**1160**	**1680**	**1980**	**2700**	**2990**	**3000**	**3880**	**5620**	**6710**
		(E)	W	3	**730**	**1090**	**1530**	**1710**	**2340**	**2600**	**2680**	**3450**	**5000**	**6260**
		(E)	W	2	**610**	**940**	**1380**	**1520**	**1870**	**2270**	**2390**	**3050**	**4420**	**5750**
			W	1	520	650	1270	1230	1540	2070	2220	2750	4030	5430
	Water flow		l/h	6	97	158	225	251	368	384	424	464	618	659
			l/h	5	80	141	199	204	285	318	359	424	560	624
			l/h	4	67	102	147	173	237	262	263	340	493	588
			l/h	3	64	96	134	150	205	228	235	302	439	549
			l/h	2	54	82	121	133	164	199	209	267	388	504
			l/h	1	45	57	112	108	135	181	195	241	353	476
	Water pressure drop		kPa	6	1,9	5,8	13,4	19,2	35,5	7,7	30,6	21,8	22,2	27,3
			kPa	5	1,3	4,8	10,8	13,3	21,5	5,5	22,3	18,5	18,6	24,8
		(E)	kPa	4	**1,0**	**3,2**	**8,3**	**10,1**	**13,8**	**3,9**	**12,3**	**12,2**	**14,9**	**22,3**
		(E)	kPa	3	**0,9**	**2,8**	**7,1**	**7,8**	**10,8**	**3,1**	**10,0**	**9,7**	**12,1**	**19,8**
		(E)	kPa	2	**0,7**	**2,2**	**5,9**	**6,3**	**7,3**	**2,4**	**8,2**	**7,9**	**9,8**	**17,0**
			kPa	1	0,5	1,0	3,9	4,4	5,0	2,0	7,1	6,5	8,3	15,4
HEATING Air temp.: 20 °C Inlet water temp.: 70/60 °C	Heating capacity		W	6	1270	2050	2910	3230	4770	4970	5480	6000	7990	8510
			W	5	1040	1830	2504	2630	3690	4110	4640	5480	7240	8060
			W	4	870	1350	1901	2240	3070	3390	3400	4390	6370	7590
			W	3	840	1270	1736	1940	2660	2950	3030	3910	5660	7090
			W	2	710	1100	1553	1710	2120	2570	2700	3450	5010	6510
			W	1	600	740	1440	1390	1750	2340	2520	3120	4560	6140
	Water flow		l/h	6	112	180	256	284	419	436	481	527	702	748
			l/h	5	92	161	220	231	324	361	408	482	636	708
			l/h	4	77	119	167	197	270	298	299	386	560	667
			l/h	3	74	112	153	170	233	259	266	343	498	623
			l/h	2	62	97	137	151	186	226	238	303	440	572
			l/h	1	52	65	127	122	154	206	221	274	401	540
	Water pressure drop		kPa	6	2,4	7,2	16,4	23,5	45,6	9,4	38,8	27,4	27,2	33,4
			kPa	5	1,7	5,9	13,3	16,3	27,6	6,8	28,2	23,2	22,8	30,4
			kPa	4	1,2	3,5	10,2	12,3	17,7	4,8	15,6	15,3	18,2	27,3
			kPa	3	1,2	3,1	8,7	9,5	13,9	3,8	12,7	12,2	14,8	24,2
			kPa	2	0,9	2,4	7,3	7,7	9,4	3,0	10,3	9,9	11,9	20,8
			kPa	1	0,6	1,2	4,8	5,3	6,4	2,5	9,0	8,2	10,1	18,8
	Portata aria *Air flow*		m^3/h	6	200	328	424	604	753	829	960	1138	1352	1643
			m^3/h	5	147	282	354	427	505	635	751	1000	1180	1572
			m^3/h	4	117	197	291	349	401	496	603	733	990	1493
			m^3/h	3	98	169	248	284	329	407	508	581	851	1368
			m^3/h	2	77	142	214	241	245	335	411	469	725	1217
			m^3/h	1	60	132	155	212	184	288	370	403	635	1101
	Livello di potenza sonora *Sound power level*		dB(A)	6	48	51	52	53	54	55	57	62	62	65
			dB(A)	5	41	47	48	45	46	49	52	59	59	64
		(E)	dB(A)	4	**38**	**40**	**43**	**40**	**42**	**43**	**49**	**53**	**57**	**62**
		(E)	dB(A)	3	**35**	**36**	**39**	**35**	**36**	**38**	**43**	**45**	**53**	**60**
		(E)	dB(A)	2	**29**	**30**	**36**	**32**	**34**	**33**	**37**	**40**	**47**	**57**
			dB(A)	1	20	28	29	25	25	30	34	38	43	55
	Livello di pressione sonora *Sound pressure level*		dB(A)	6	39	42	43	44	45	46	48	53	53	56
			dB(A)	5	32	38	39	36	37	40	43	50	50	55
			dB(A)	4	29	31	34	31	33	34	40	44	48	53
			dB(A)	3	26	27	30	26	27	29	34	36	44	51
			dB(A)	2	20	21	27	23	25	24	28	31	38	48
			dB(A)	1	11	19	20	16	16	21	25	29	34	46

- Standard unit with free outlet: external static pressure = 0 Pa
- The sound power level test has to be performed according to EN 16583:2015 standard
- Sound pressure level: 8,6 dB(A) lower that the sound power level for a room of 90 m^3 with a reverberation time of 0,5 sec.
- Supported power supply: ~230V / 1ph / 50-60Hz

TECHNICAL DATA

GENERAL TECHNICAL DATA

STANDARD MOTOR				10	20	30	40	50	60	70	80	90	100
Potenza elettroventilatore *Power input*		W	6	35	45	58	77	91	104	114	153	211	223
		W	5	24	35	45	49	62	80	88	136	169	205
	(E)	W	4	**19**	**22**	**34**	**38**	**48**	**61**	**67**	**98**	**125**	**191**
	(E)	W	3	**16**	**18**	**29**	**30**	**39**	**50**	**52**	**81**	**103**	**181**
	(E)	W	2	**12**	**13**	**25**	**25**	**30**	**41**	**43**	**66**	**85**	**167**
		W	1	10	12	18	19	23	35	38	59	73	155
Corrente elettroventilatore *Absorbed current*		A	6	0,16	0,20	0,26	0,34	0,41	0,48	0,49	0,68	0,93	1,03
		A	5	0,11	0,15	0,20	0,22	0,28	0,36	0,38	0,60	0,71	0,93
		A	4	0,09	0,10	0,15	0,17	0,21	0,28	0,29	0,45	0,55	0,87
		A	3	0,07	0,08	0,13	0,13	0,17	0,22	0,24	0,37	0,45	0,82
		A	2	0,05	0,06	0,11	0,11	0,13	0,18	0,20	0,31	0,37	0,77
		A	1	0,04	0,05	0,08	0,09	0,10	0,16	0,17	0,27	0,32	0,72
Tensione di alimentazione *Power input*				~230V / 1ph / 50-60Hz									

ECM MOTOR			20	30	40	50	60	80	90	100
Potenza elettroventilatore *Power input*	W	4	11	13	12	10	16	28	49	121
	W	3	9	10	9	9	12	19	36	97
	W	2	7	9	7	7	10	13	27	72
Tensione di alimentazione *Power input*			~230V / 1ph / 50-60Hz							

DIRECT EXPANSION COIL - GAS R410a -

			10	20	30	40	50	60	70	80	90	100
			4° 3° 2°	4° 3° 2°	4° 3° 2°	4° 3° 2°	4° 3° 2°	4° 3° 2°	4° 3° 2°	4° 3° 2°	4° 3° 2°	4° 3° 2°
Total cooling capacity	W	6	1510	2590	3300	4600	5760	6450	7430	8390	9890	11600
	W	5	1200	2330	2940	3650	4260	5370	6190	7610	9000	11300
	W	4	1020	1810	2490	3120	3520	4410	5330	6030	7930	10900
	W	3	881	1630	2250	2670	3070	3810	4640	5110	7120	10300
	W	2	721	1400	2000	2320	2390	3250	3920	4330	6300	9420
	W	1	586	1230	1530	2100	1890	2880	3590	3810	5710	8790
Sensible cooling capacity	W	6	1040	1770	2260	3140	3950	4400	5070	5790	6840	8090
	W	5	8200	1580	1990	2460	2870	3620	4180	5210	6170	7860
	W	4	685	1210	1670	2090	2350	2950	3570	4070	5380	7520
	W	3	590	1090	1500	1770	2040	2530	3090	3410	4800	7090
	W	2	479	931	1330	1530	1580	2140	2590	2880	4220	6430
	W	1	387	810	1010	1380	1240	1900	2370	2520	3810	5970

evaporation temperature 5°C
condensation temperature 45°C
undercooling 5°C

overheating 5°C
air temperature 27°C
relative humidity 47%

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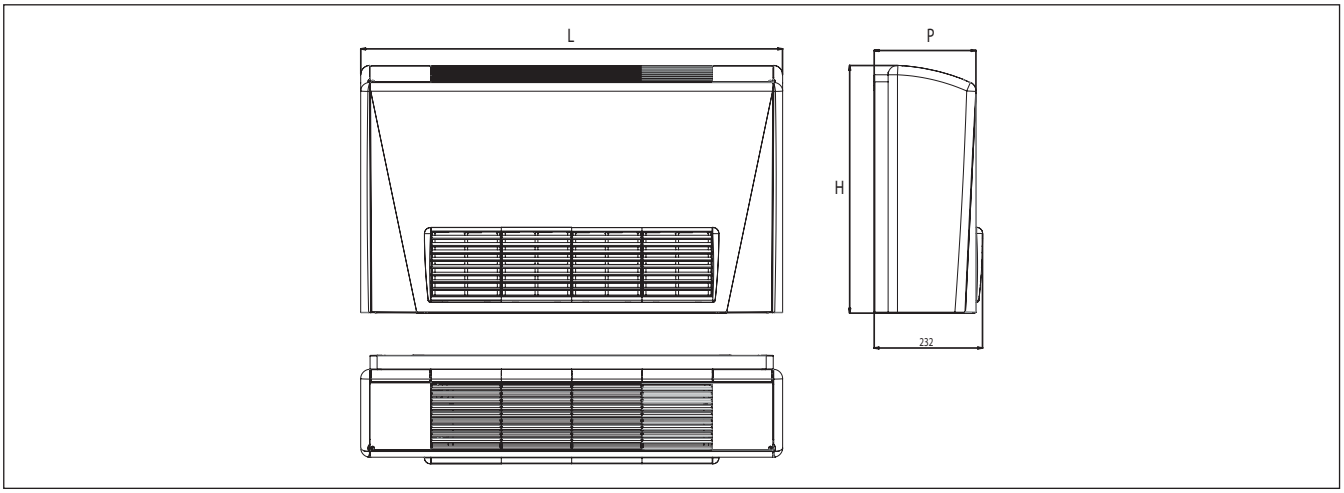
TECHNICAL DATA

FAN COIL GENERAL DIMENSIONS FOR 2/4 PIPE SYSTEM



2 PIPE SYSTEM		MOD.	10	20	30	40	50	60	70	80	90	100
	Fans number	n°	1	1	1	2	2	2	2	2	4	4
	Coils numbers	n°	1	1	1	1	1	1	1	1	1	1
Coil used for cooling and heating	Rows number	n°	3	3	3	3	3	3	3	3	3	3
	Water content	litri	0,5	0,8	1,2	1,5	1,8	2,1	2,4	2,4	2,7	3,1
	Hydraulic connection (Ø Gas female)	Ø	1/2”	1/2”	1/2”	1/2”	1/2”	3/4”	3/4”	3/4”	3/4”	3/4”
General features	Unit lenght with cabinet	L (mm)	600	750	900	1050	1200	1350	1500	1500	1650	1800
	Unit lenght without cabinet	M (mm)	380	530	680	830	980	1130	1280	1280	1430	1580

4 PIPE SYSTEM		MOD.	10	20	30	40	50	60	70	80	90	100
	Fans number	n°	1	1	1	2	2	2	2	2	4	4
	Coils numbers	n°	2	2	2	2	2	2	2	2	2	2
Coil used for cooling	Rows number	n°	3	3	3	3	3	3	3	3	3	3
	Water content	litri	0,5	0,8	1,2	1,5	1,8	2,1	2,4	2,4	2,7	3,1
	Hydraulic connection (Ø Gas female)	Ø	1/2”	1/2”	1/2”	1/2”	1/2”	3/4”	3/4”	3/4”	3/4”	3/4”
Coil used for heating	N. rows	n°	1	1	1	1	1	1	1	1	1	1
	Water content	litri	0,1	0,2	0,3	0,4	0,5	0,6	0,6	0,6	0,7	0,8
	Hydraulic connection (Ø Gas female)	Ø	1/2”	1/2”	1/2”	1/2”	1/2”	1/2”	1/2”	1/2”	1/2”	1/2”
General features	Unit lenght with cabinet	L (mm)	600	750	900	1050	1200	1350	1500	1500	1650	1800
	Unit lenght without cabinet	M (mm)	380	530	680	830	980	1130	1280	1280	1430	1580

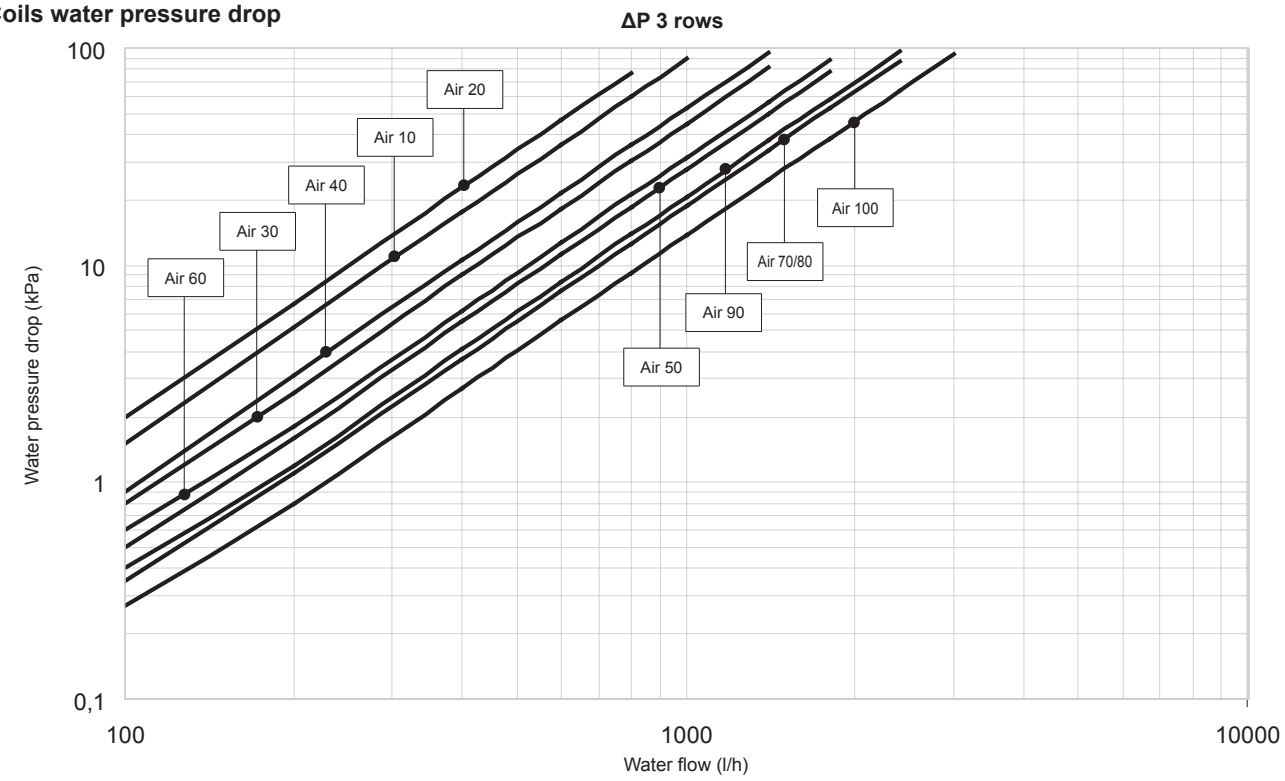
2 PIPE SYSTEM		MOD.	10	20	30	40	50	60	70	80	90	100
	Fans number	n°	1	1	1	2	2	2	2	2	4	4
	Coils numbers	n°	1	1	1	1	1	1	1	1	1	1
Coil used for cooling and heating	Rows number	n°	4	4	4	4	4	4	4	4	4	4
	Water content	litri	0,7	1,1	1,6	2,0	2,4	2,8	3,2	3,2	3,7	4,1
	Hydraulic connection (Ø Gas female)	Ø	1/2"	1/2"	1/2"	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"
General features	Unit lenght with cabinet	L (mm)	600	750	900	1050	1200	1350	1500	1500	1650	1800
	Unit lenght without cabinet	M (mm)	380	530	680	830	980	1130	1280	1280	1430	1580

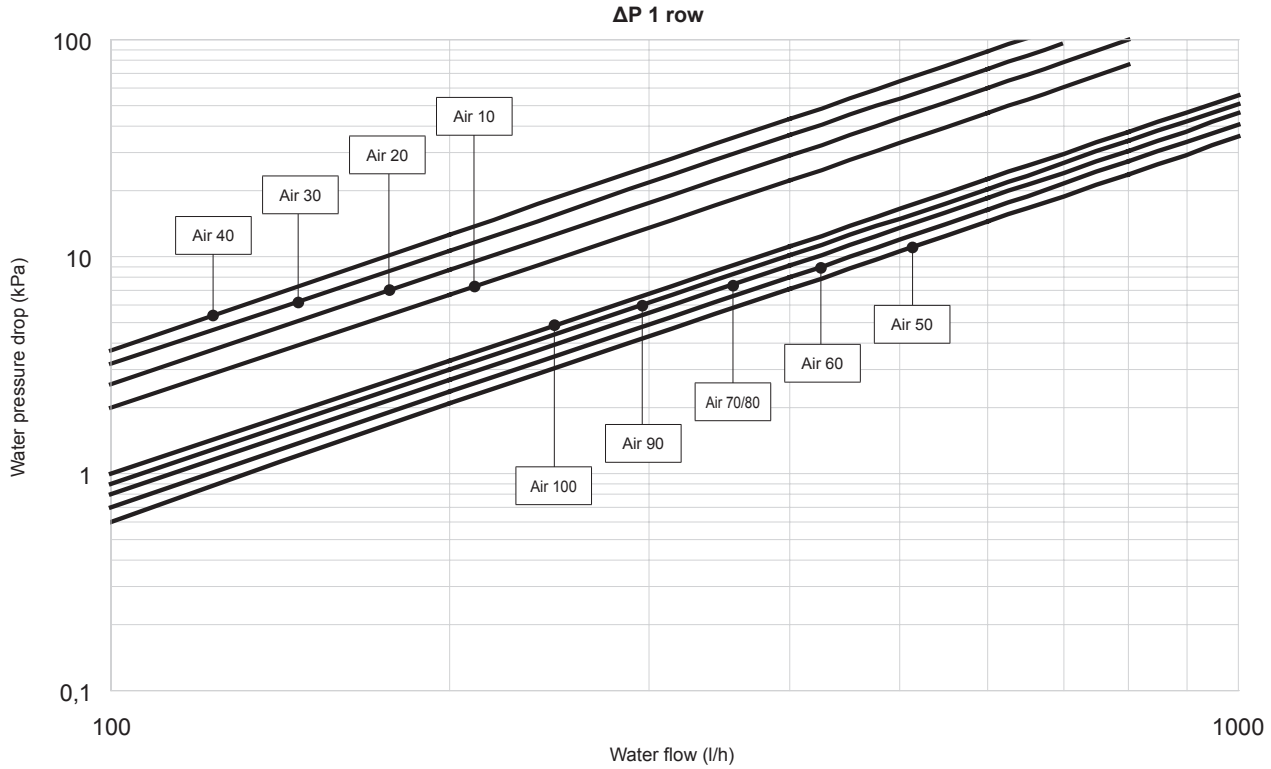
TECHNICAL DATA

WORK LIMITS

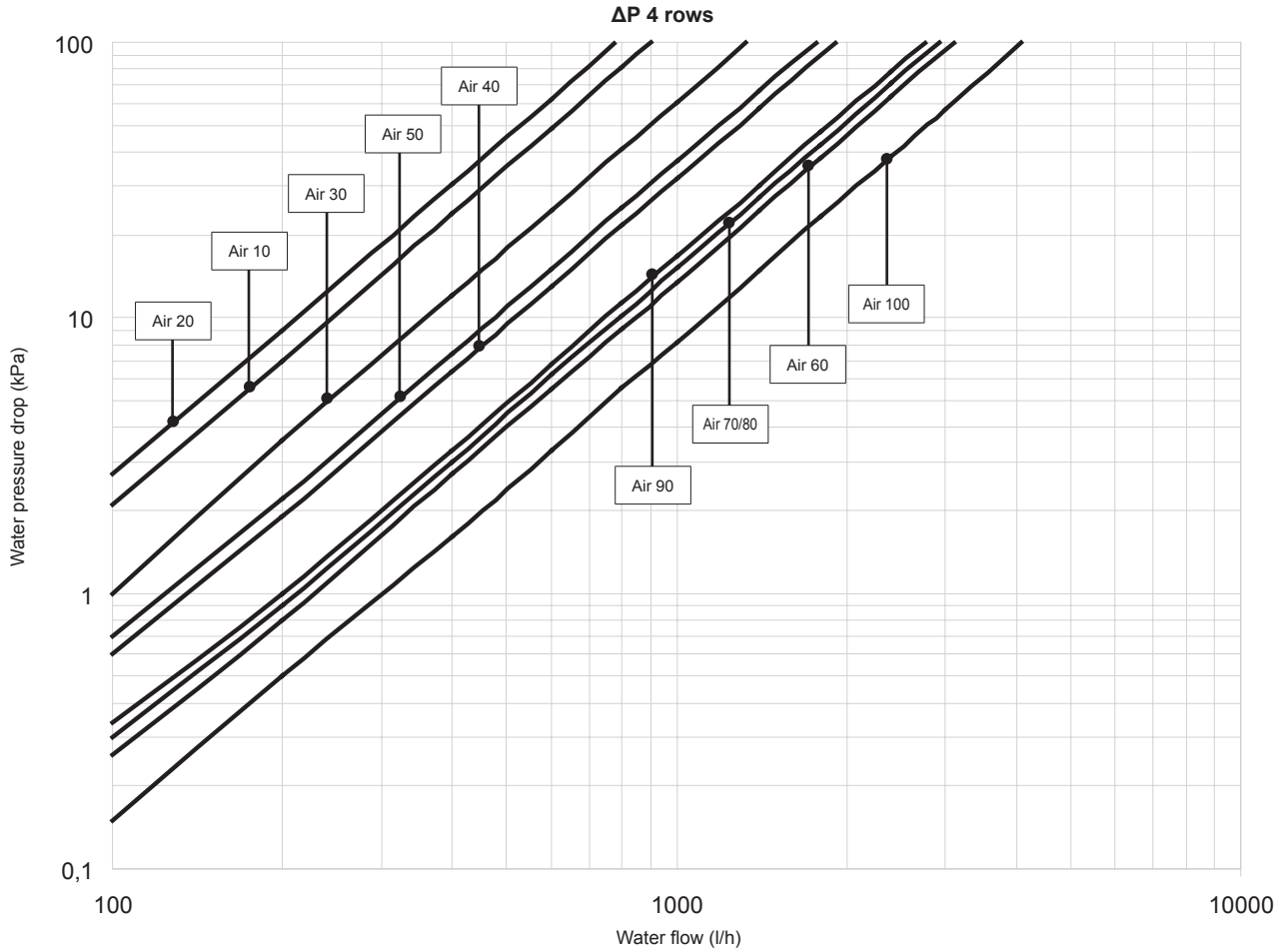
SUMMER (COOLING)		WINTER (HEATING)	
Minimum inlet water temperature	+4°C	Maximum inlet water temperature	+80°C
Maximum operating pressure	8 bar	Maximum operating pressure	8 bar
Maximum room air temperature	+35°C	Minimum room air temperature	+4°C
Maximum room air humidity	80%	Maximum room air humidity	80%
		Maximum room air temperature	+35°C

Coils water pressure drop





TECHNICAL DATA



3 way valves

When the machine is used for conditioning and in order to avoid condensation on the outside of the unit (on structure and cabinet), it is mandatory to use a 2-way or 3-way valve or to arrange a regulating system to block the chilled water flow inside the coil when the fan is not active.

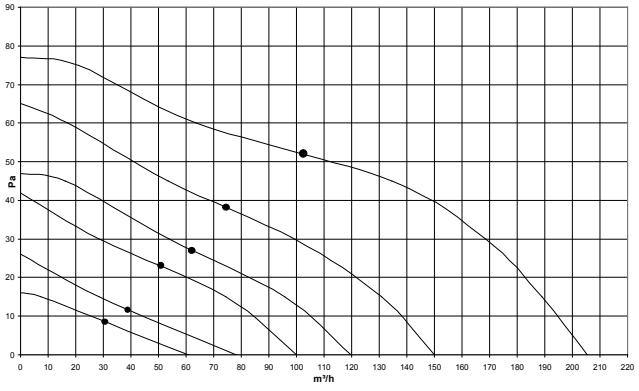
Maximum fans static pression

When the fan coil unit is connected to an air intake and/or distribution channel, the head losses in pipes cause a decrease in the air flow rate of fans. If the head losses are too high, the fan coil unit air flow rate is then too low and the electric motor connected to the fans may be seriously damaged. Therefore it is recommended to operate the fan coil unit only with static pressure values lower than the maximum ones indicated by the graphs. The graphs below indicate the maximum applicable static pressure values for our fan coil units at different operating speeds. NOTE: when the fan coil units operate at the indicated static pressure limit value, the air flow rate is halved compared to the one supplied by the open outlet machine at the same operating speed. Ultimately, the static pressure limit value corresponds to the back pressure able to halve the fan coil unit air flow rate (as a consequence, the whole performance of the machine will be reduced by approx. 50%: cooling capacity, thermal capacity, etc.)

TECHNICAL DATA

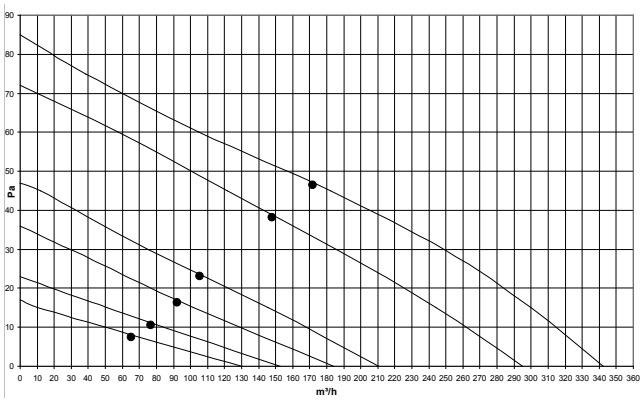
AERAULIC PERFORMANCE (2 PIPE SYSTEM)

Air 10 - 2 PIPE SYSTEM (3 rows coil data)



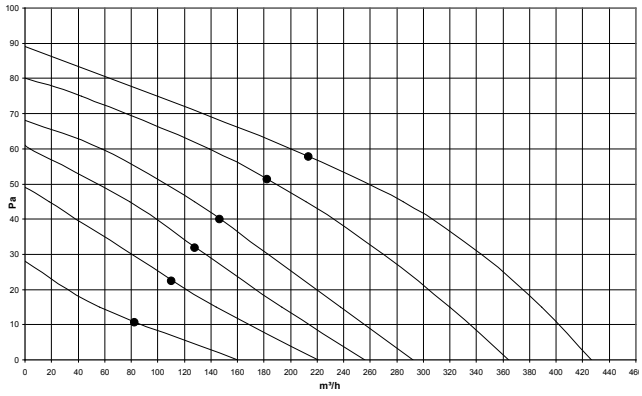
IT IS UNADVISED to use the unit at static pressure values above the dotted line

Air 20 - 2 PIPE SYSTEM (3 rows coil data)



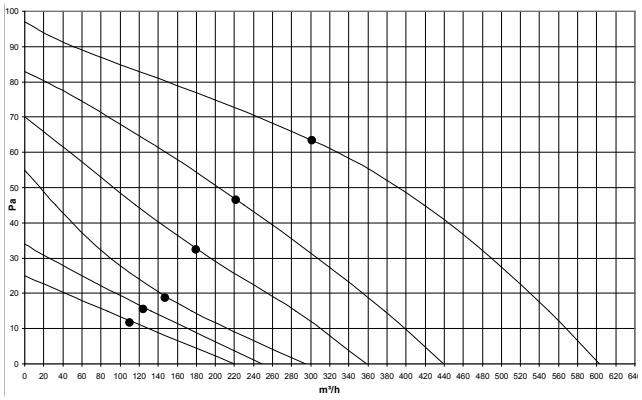
IT IS UNADVISED to use the unit at static pressure values above the dotted line

Air 30 - 2 PIPE SYSTEM (3 rows coil data)



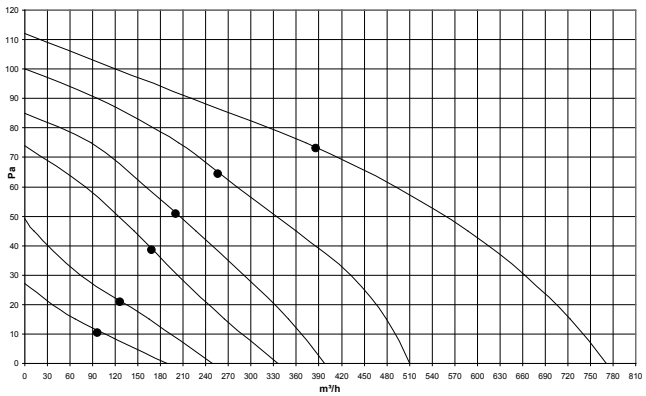
IT IS UNADVISED to use the unit at static pressure values above the dotted line

Air 40 - 2 PIPE SYSTEM (3 rows coil data)



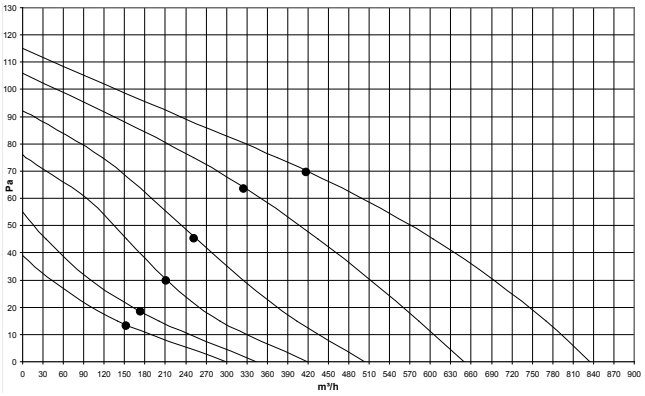
IT IS UNADVISED to use the unit at static pressure values above the dotted line

Air 50 - 2 PIPE SYSTEM (3 rows coil data)



IT IS UNADVISED to use the unit at static pressure values above the dotted line

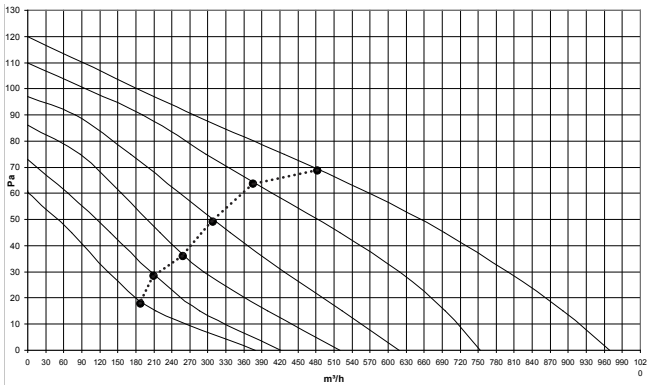
Air 60 - 2 PIPE SYSTEM (3 rows coil data)



TECHNICAL DATA

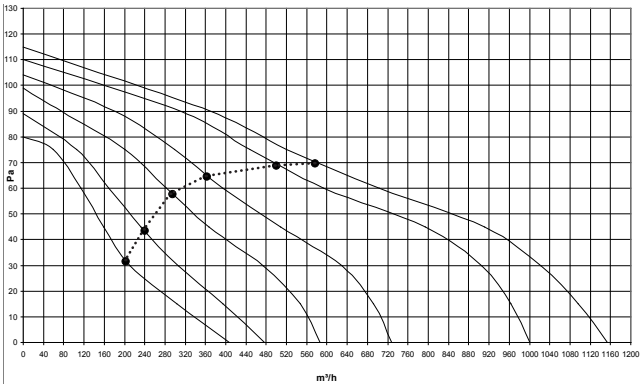
AERAULIC PERFORMANCE (2 PIPE SYSTEM)

Air 70 - 2 PIPE SYSTEM
(3 rows coil data)



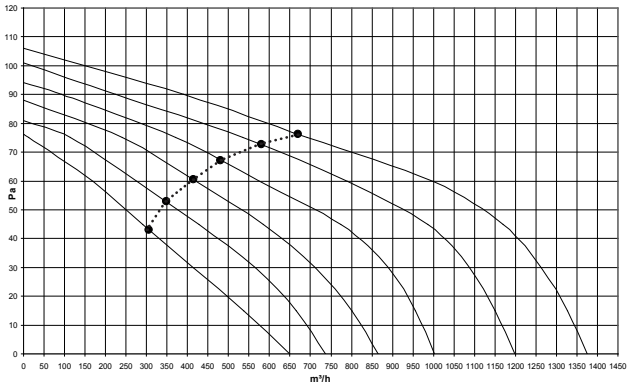
IT IS UNADVISED to use the unit at static pressure values above the dotted line

Air 80 - 2 PIPE SYSTEM
(3 rows coil data)



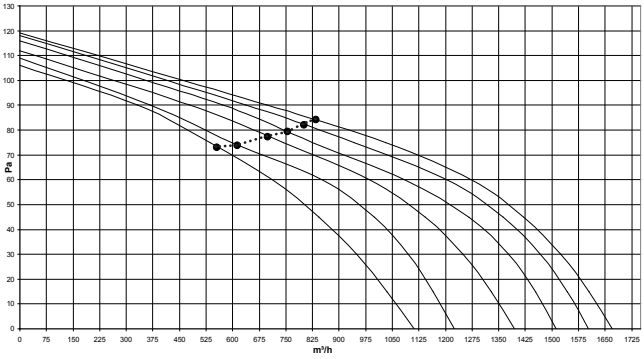
IT IS UNADVISED to use the unit at static pressure values above the dotted line

Air 90 - 2 PIPE SYSTEM
(3 rows coil data)



IT IS UNADVISED to use the unit at static pressure values above the dotted line

Air 100 - 2 PIPE SYSTEM
(3 rows coil data)



IT IS UNADVISED to use the unit at static pressure values above the dotted line

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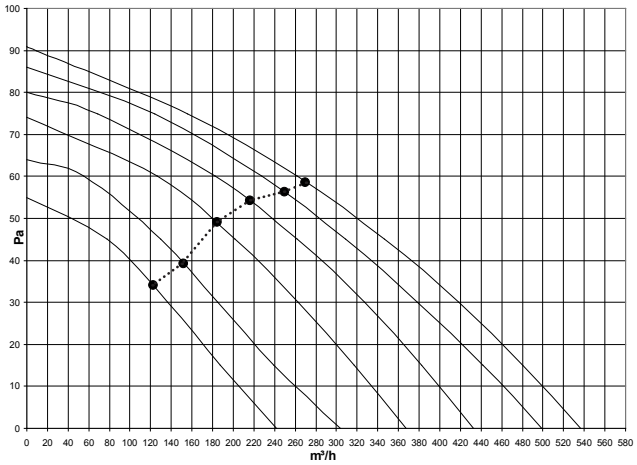
TECHNICAL DATA

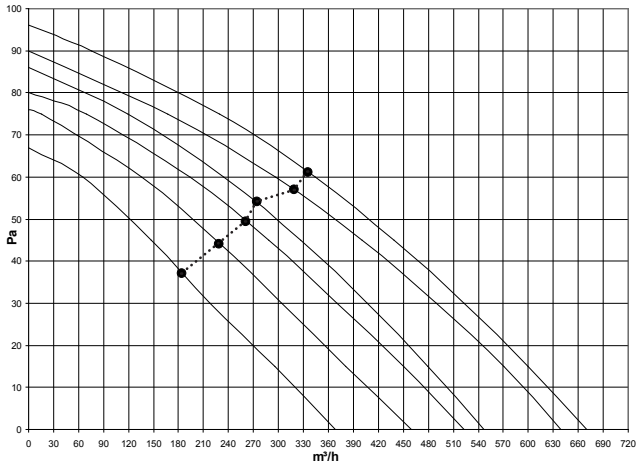
AERAULIC PERFORMANCE (2 PIPE SYSTEM - HIGH PRESSURE MOTOR)

Air 20 - 2 PIPE SYSTEM (high pressure motor data)



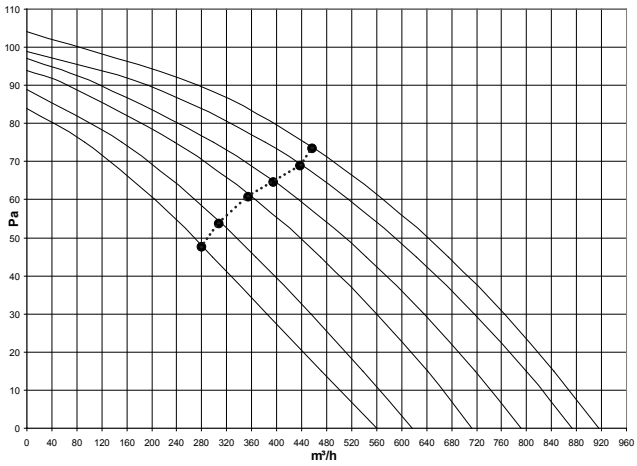
IT IS UNADVISED to use the unit at static pressure values above the dotted line

Air 30 - 2 PIPE SYSTEM (high pressure motor data)



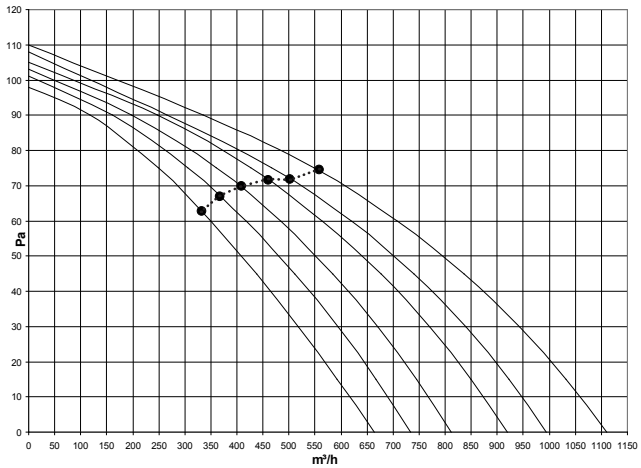
IT IS UNADVISED to use the unit at static pressure values above the dotted line

Air 40 - 2 PIPE SYSTEM (high pressure motor data)



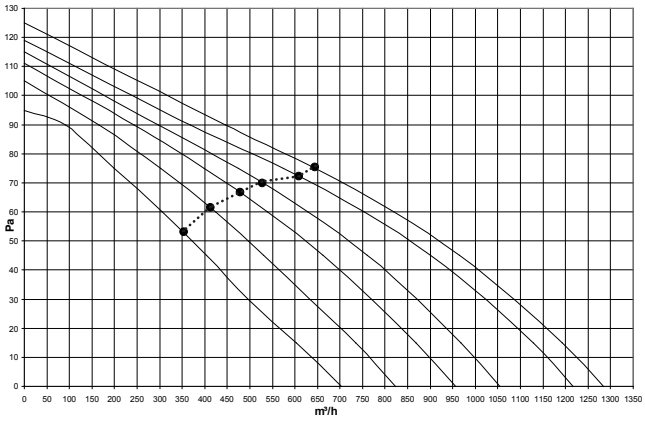
IT IS UNADVISED to use the unit at static pressure values above the dotted line

Air 50 - 2 PIPE SYSTEM (high pressure motor data)



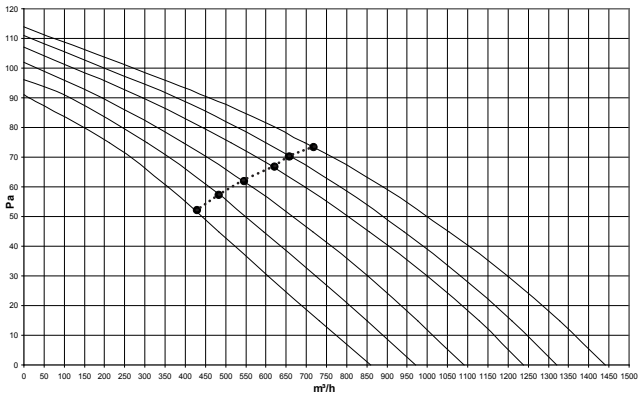
IT IS UNADVISED to use the unit at static pressure values above the dotted line

Air 60 - 2 PIPE SYSTEM (high pressure motor data)



IT IS UNADVISED to use the unit at static pressure values above the dotted line

Air 70 - 2 PIPE SYSTEM (high pressure motor data)



IT IS UNADVISED to use the unit at static pressure values above the dotted line

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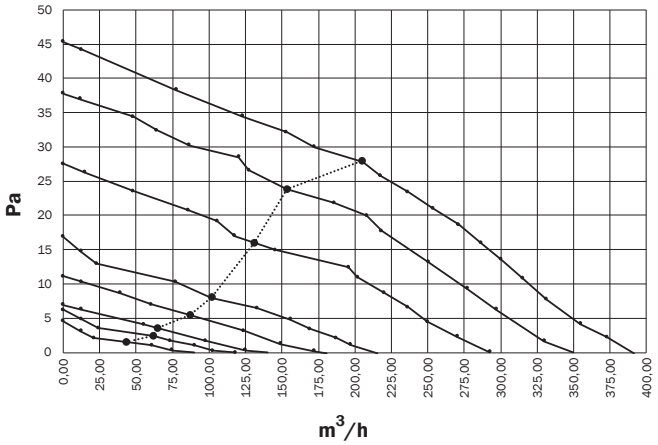
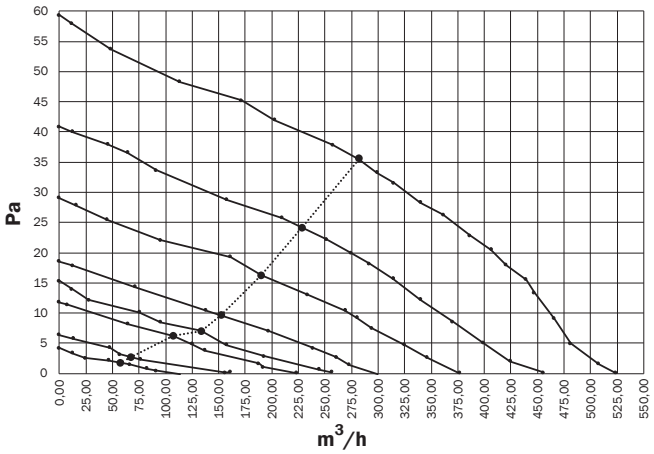
TECHNICAL DATA

AERAULIC PERFORMANCE (ECM MOTORS)

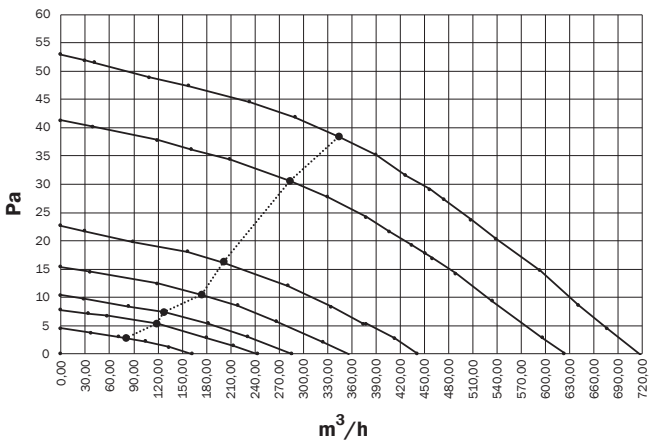
Air 20 ECM



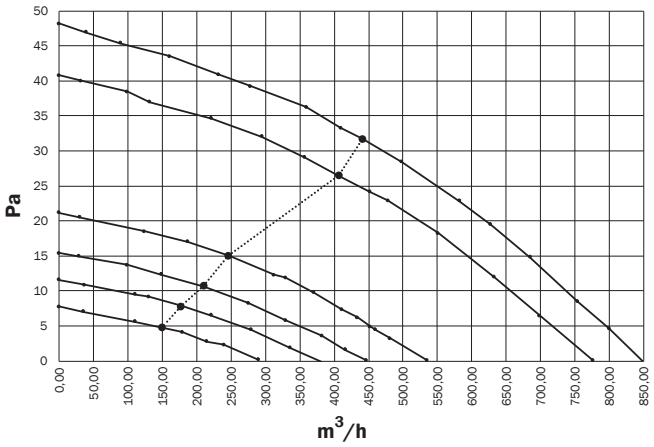
Air 30 ECM



Air 40 ECM



Air 50 ECM



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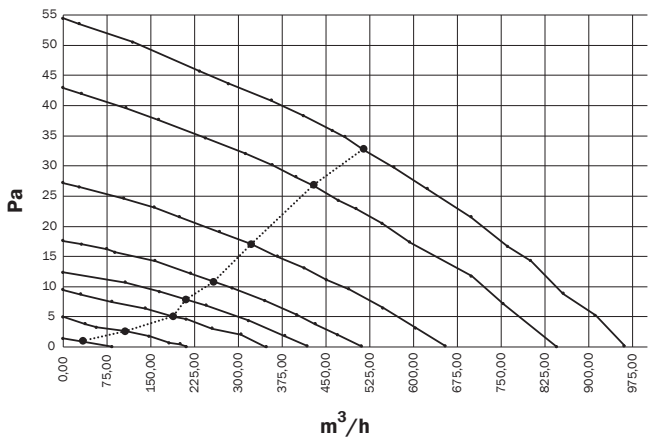
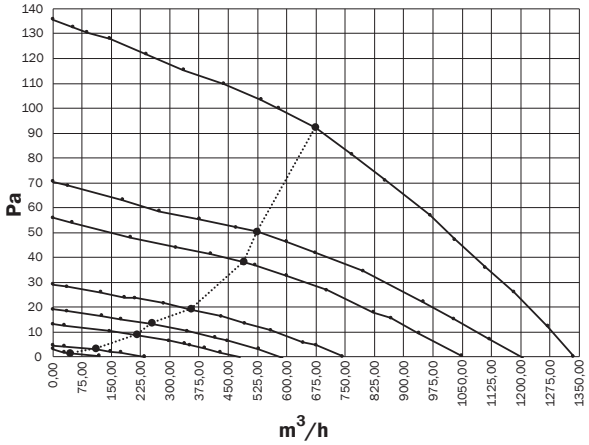
TECHNICAL DATA

AERAULIC PERFORMANCE (ECM MOTORS)

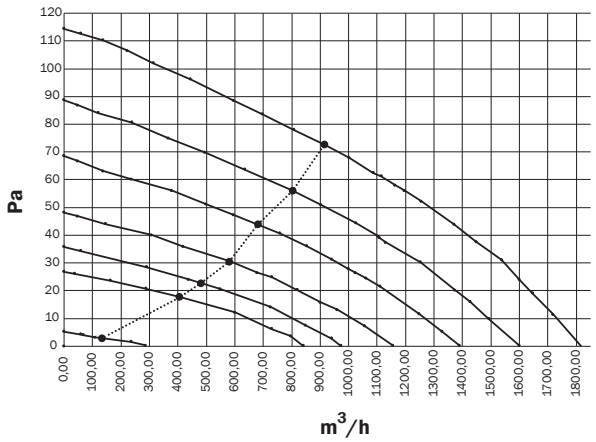
Air 60 ECM



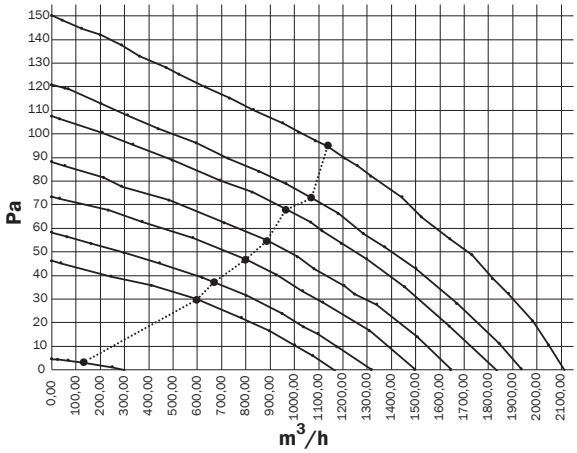
Air 70-80 ECM



Air 90 ECM



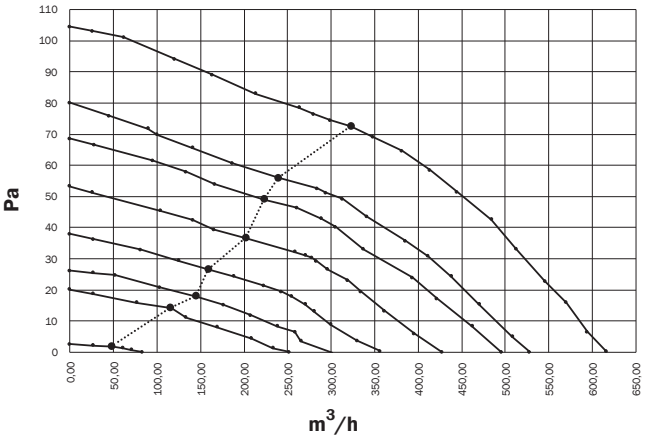
Air 100 ECM



TECHNICAL DATA

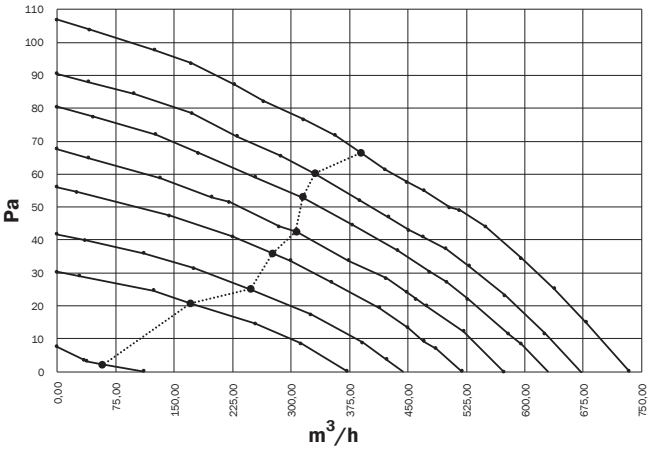
AERAULIC PERFORMANCE (ECM MOTORS AP)

Air 20 ECM AP



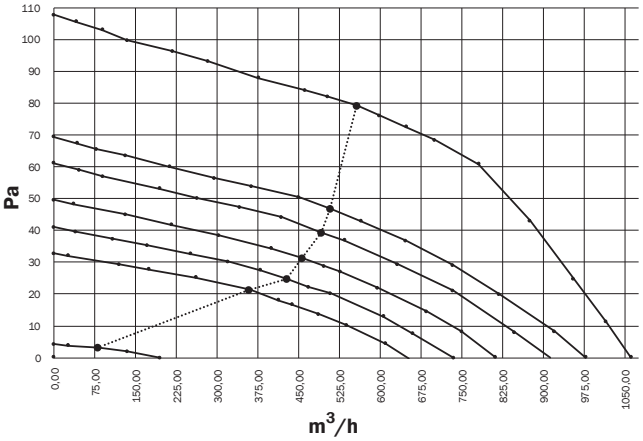
IT IS UNADVISED to use the unit at static pressure values above the dotted line

Air 30 ECM AP



IT IS UNADVISED to use the unit at static pressure values above the dotted line

Air 40 ECM AP



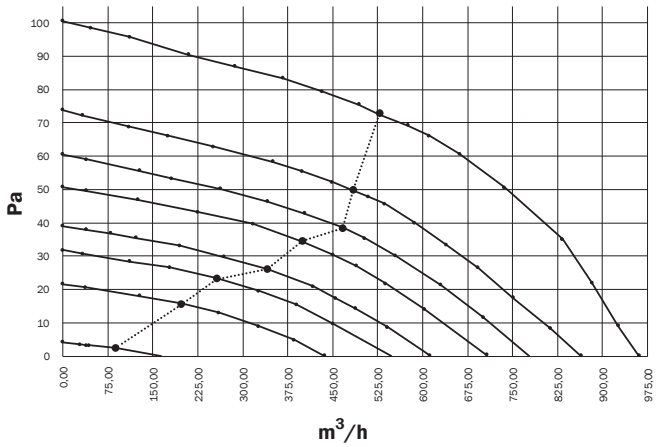
IT IS UNADVISED to use the unit at static pressure values above the dotted line

Pa

TECHNICAL DATA

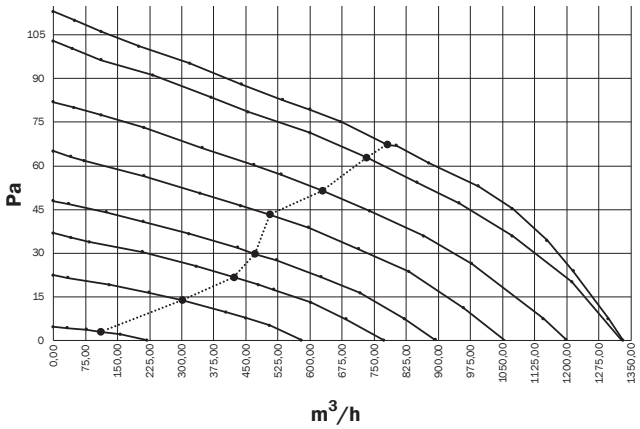
AERAULIC PERFORMANCE (ECM MOTORS AP)

Air 50 ECM AP



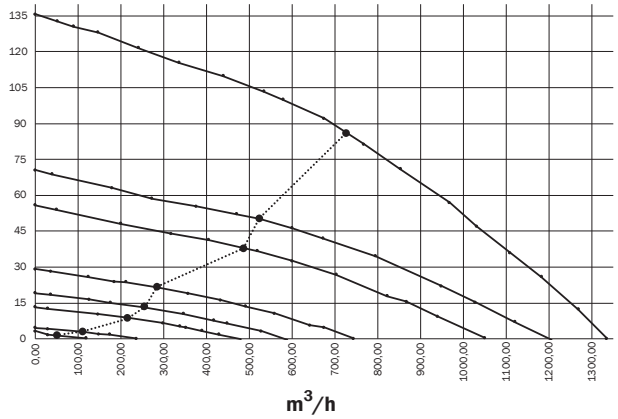
IT IS UNADVISED to use the unit at static pressure values above the dotted line

Air 60 ECM AP



IT IS UNADVISED to use the unit at static pressure values above the dotted line

Air 70-80 ECM AP



IT IS UNADVISED to use the unit at static pressure values above the dotted line

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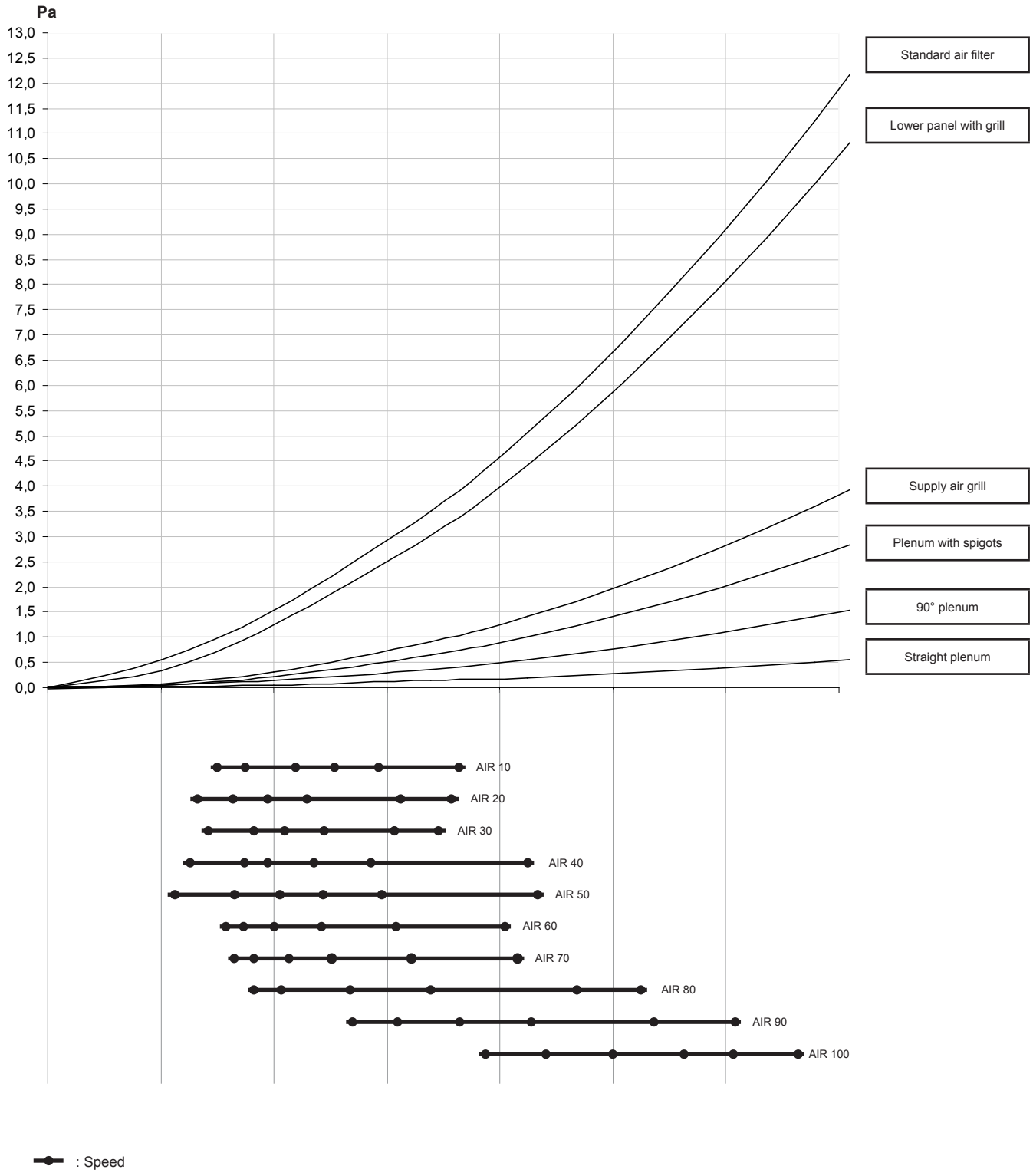
TECHNICAL DATA

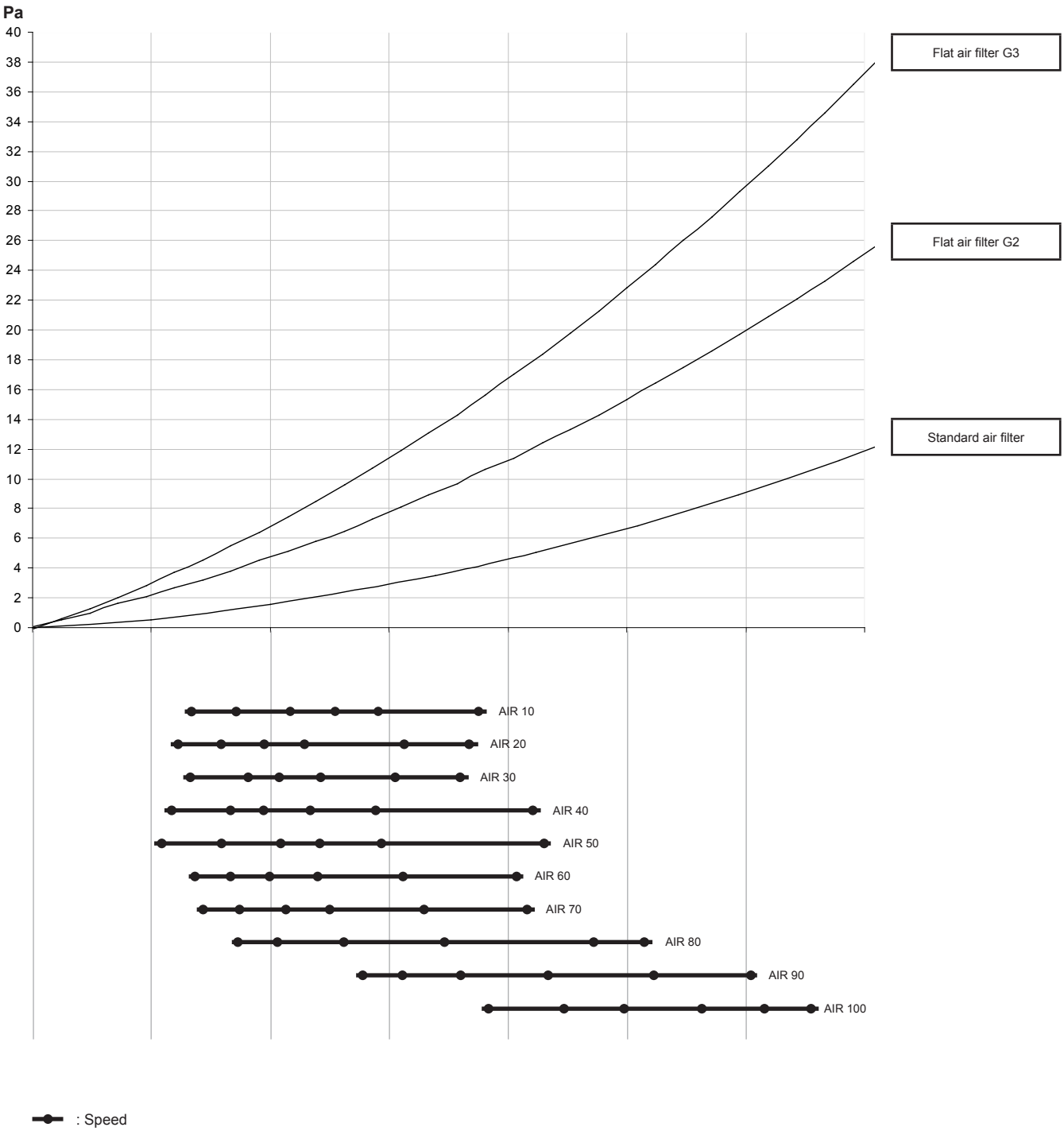
MAIN ACCESSORIES AIR PRESSURE DROP



Available fan speed diagram with:
- pressure drop values (Pa) in ordinate;
- crossing speed (m/s) in abscissa.

TECHNICAL DATA

MAIN ACCESSORIES AIR PRESSURE DROP



Available fan speed diagram with:
- pressure drop values (Pa) in ordinate;
- crossing speed (m/s) in abscissa.

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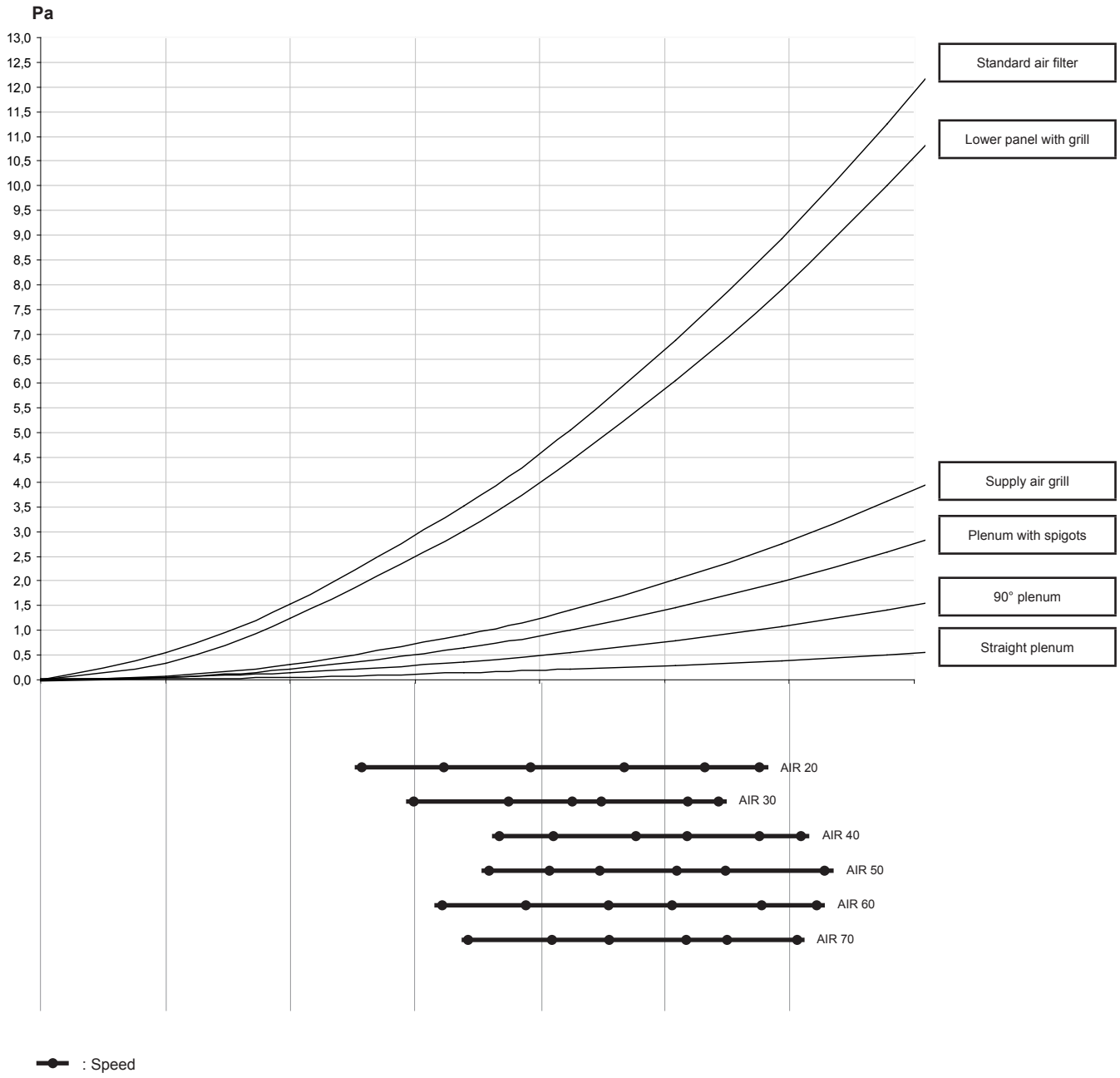
TECHNICAL DATA

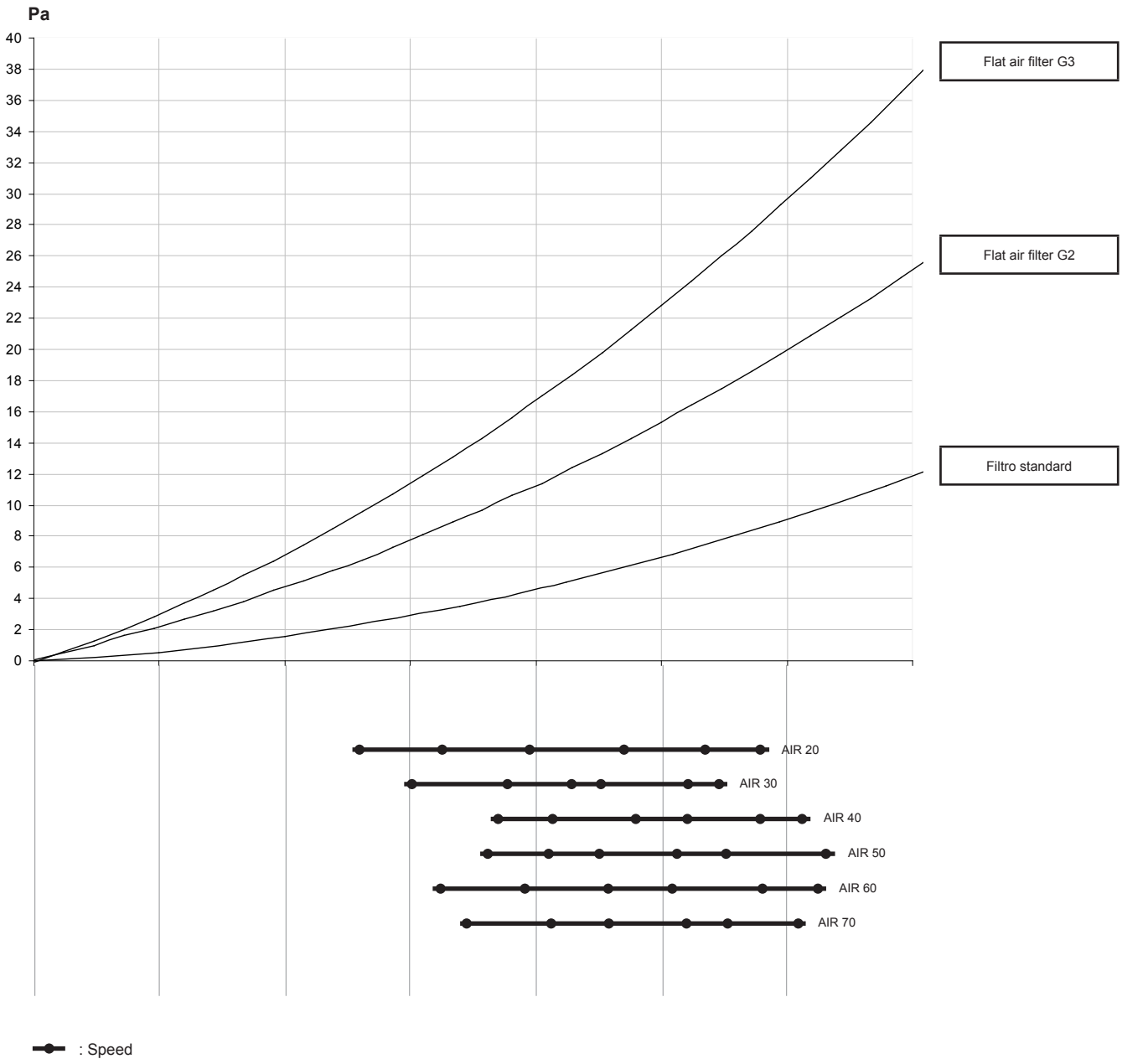
MAIN ACCESSORIES AIR PRESSURE DROP (HIGH PRESSURE MOTORS)



Available fan speed diagram with:
- pressure drop values (Pa) in ordinate;
- crossing speed (m/s) in abscissa.

TECHNICAL DATA

MAIN ACCESSORIES AIR PRESSURE DROP (HIGH PRESSURE MOTORS)



Available fan speed diagram with:
- pressure drop values (Pa) in ordinate;
- crossing speed (m/s) in abscissa.

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TECHNICAL DATA

SOUND POWER SPECTRUM (2 PIPES)

Model	Speed	Standard electric wiring	Frequence spectrum - ref. octave band (Hz)							Total sound power [db(A)]
			125	250	500	1.000	2.000	4.000	8.000	
Air 10	6		43,0	48,0	45,5	43,8	39,0	33,0	24,0	**48,0**
	5		36,0	42,0	39,0	36,0	31,0	25,0	19,0	**41,0**
	4	**Max**	**34,0**	**39,0**	**36,0**	**33,0**	**30,0**	**21,0**	**19,0**	**38,0**
	3	**Med**	**30,0**	**36,0**	**32,0**	**30,0**	**26,0**	**20,0**	**18,0**	**35,0**
	2	**Min**	**21,0**	**26,0**	**27,0**	**24,0**	**20,0**	**15,0**	**13,0**	**29,0**
	1		16,0	17,0	20,0	19,0	17,0	13,0	14,0	**24,0**
Air 20	6		48,0	51,0	50,0	45,0	42,0	37,0	30,0	**51,0**
	5		44,0	48,0	46,0	41,0	37,5	32,0	25,0	**47,0**
	4	**Max**	**37,0**	**42,0**	**39,3**	**33,0**	**30,0**	**22,0**	**19,7**	**40,0**
	3	**Med**	**33,0**	**38,0**	**35,5**	**28,5**	**26,0**	**19,0**	**18,0**	**36,0**
	2	**Min**	**30,0**	**36,0**	**32,0**	**22,0**	**22,0**	**17,0**	**18,0**	**33,0**
	1		24,4	31,0	27,0	16,0	19,0	14,0	17,0	**28,0**
Air 30	6		47,0	51,0	49,5	45,5	42,7	36,0	30,0	**51,0**
	5		44,0	47,0	45,8	41,8	38,0	30,0	24,0	**47,0**
	4	**Max**	**40,0**	**44,0**	**41,7**	**38,0**	**33,0**	**24,0**	**19,0**	**43,0**
	3	**Med**	**37,0**	**41,0**	**38,0**	**33,0**	**28,0**	**19,0**	**18,0**	**39,0**
	2	**Min**	**34,6**	**38,5**	**35,4**	**29,9**	**23,9**	**15,9**	**18,4**	**36,1**
	1		30,1	32,5	27,7	20,6	17,7	13,1	18,2	**29,1**
Air 40	6		50,0	52,0	49,0	48,0	47,0	38,0	30,0	**53,0**
	5		44,0	45,5	44,0	40,0	34,0	27,0	22,0	**45,0**
	4	**Max**	**39,0**	**42,0**	**39,3**	**34,4**	**27,0**	**20,0**	**20,0**	**40,0**
	3	**Med**	**34,0**	**38,0**	**34,0**	**28,5**	**21,0**	**18,0**	**19,0**	**35,0**
	2	**Min**	**30,0**	**34,0**	**30,5**	**23,0**	**17,0**	**16,0**	**18,0**	**31,0**
	1		25,0	27,6	22,8	14,8	13,0	14,0	18,0	**25,0**
Air 50	6		51,0	54,0	51,0	50,0	45,0	39,0	31,0	**54,0**
	5		44,0	47,0	43,8	42,0	35,0	28,0	21,0	**46,0**
	4	**Max**	**38,0**	**43,0**	**39,0**	**34,0**	**27,0**	**19,0**	**16,0**	**40,0**
	3	**Med**	**35,0**	**39,0**	**34,0**	**31,5**	**21,0**	**15,0**	**14,0**	**36,0**
	2	**Min**	**29,0**	**34,0**	**28,0**	**24,0**	**13,0**	**14,0**	**16,0**	**30,0**
	1		24,0	29,0	21,0	18,0	11,0	13,0	17,0	**25,0**
Air 60	6		50,0	53,0	51,0	47,0	48,8	39,0	33,0	**54,0**
	5		46,0	50,0	47,0	44,0	40,0	32,0	25,0	**49,0**
	4	**Max**	**41,0**	**45,0**	**42,0**	**37,0**	**31,8**	**24,0**	**23,0**	**43,0**
	3	**Med**	**36,0**	**43,0**	**36,3**	**28,9**	**24,5**	**21,0**	**23,0**	**38,0**
	2	**Min**	**33,0**	**37,0**	**31,0**	**23,0**	**20,0**	**20,0**	**24,0**	**33,0**
	1		29,6	34,0	26,0	17,0	17,0	20,0	24,0	**30,0**

TECHNICAL DATA

SOUND POWER SPECTRUM (2 PIPES)

Model	Speed	Standard electric wiring	Frequence spectrum - ref. octave band (Hz)							Total sound power [db(A)]
			125	250	500	1.000	2.000	4.000	8.000	
Air 70	6		51,0	55,0	53,0	52,0	51,0	43,0	37,0	**57,0**
	5		48,0	51,0	48,0	48,0	45,0	36,0	30,0	**52,0**
	4	**Max**	**42,0**	**46,0**	**44,0**	**42,0**	**36,0**	**28,0**	**23,0**	**46,0**
	3	**Med**	**38,0**	**42,0**	**39,0**	**37,0**	**29,0**	**22,0**	**21,0**	**41,0**
	2	**Min**	**35,0**	**39,0**	**36,0**	**31,6**	**24,0**	**19,0**	**21,0**	**37,0**
	1		32,0	37,0	33,0	27,0	20,0	19,0	21,0	**34,0**
Air 80	6		60,0	61,0	59,0	57,0	55,0	48,0	42,0	**62,0**
	5		56,0	58,0	56,0	53,0	53,0	45,0	39,0	**59,0**
	4	**Max**	**47,0**	**50,0**	**48,0**	**45,5**	**45,0**	**34,0**	**26,0**	**51,0**
	3	**Med**	**44,0**	**46,0**	**43,0**	**41,0**	**33,0**	**26,0**	**21,0**	**45,0**
	2	**Min**	**39,0**	**42,0**	**39,0**	**35,0**	**26,0**	**20,0**	**20,0**	**40,0**
	1		38,0	41,0	37,0	32,0	23,0	21,0	20,0	**38,0**
Air 90	6		59,0	61,0	59,0	57,0	55,0	48,0	42,0	**62,0**
	5		58,0	58,0	57,0	54,0	51,0	44,0	36,0	**59,0**
	4	**Max**	**53,0**	**55,0**	**53,0**	**51,0**	**45,0**	**36,0**	**30,0**	**55,0**
	3	**Med**	**49,0**	**52,0**	**50,0**	**46,0**	**40,0**	**32,0**	**26,0**	**51,0**
	2	**Min**	**47,0**	**48,0**	**46,0**	**42,0**	**35,0**	**26,0**	**26,0**	**47,0**
	1		42,0	45,0	42,0	37,7	29,5	24,0	25,0	**43,0**
Air 100	6		64,0	64,0	63,0	60,0	56,0	53,0	47,0	**65,0**
	5		60,0	63,0	62,0	58,7	56,0	51,0	45,0	**64,0**
	4	**Max**	**59,0**	**61,0**	**60,0**	**57,0**	**54,0**	**48,0**	**42,0**	**62,0**
	3	**Med**	**57,0**	**59,0**	**58,0**	**55,0**	**52,0**	**46,0**	**39,0**	**60,0**
	2	**Min**	**54,0**	**57,5**	**55,0**	**52,0**	**48,0**	**42,0**	**33,0**	**57,0**
	1		53,0	55,0	53,5	50,0	46,0	39,0	30,0	**55,0**

TECHNICAL DATA

SOUND POWER SPECTRUM (4 PIPES)

Model	Speed	Standard electric wiring	Frequence spectrum - ref. octave band (Hz)							Total sound power [db(A)]
			125	250	500	1.000	2.000	4.000	8.000	
Air 10	6		43,0	48,0	45,5	43,8	39,0	33,0	24,0	**48,0**
	5		36,0	42,0	39,0	36,5	31,0	25,0	19,0	**41,0**
	4	**Max**	**34,0**	**39,0**	**36,0**	**33,0**	**30,0**	**21,0**	**19,0**	**38,0**
	3	**Med**	**30,0**	**36,0**	**32,0**	**30,0**	**26,0**	**20,0**	**18,0**	**35,0**
	2	**Min**	**21,0**	**26,0**	**27,0**	**24,0**	**20,0**	**15,0**	**13,0**	**29,0**
	1		13,0	13,0	15,5	15,0	14,0	8,0	11,0	**20,1**
Air 20	6		48,0	51,0	50,0	45,0	42,0	37,0	30,0	**51,0**
	5		44,0	48,0	46,0	41,0	37,5	32,0	25,0	**47,0**
	4	**Max**	**37,0**	**42,0**	**39,3**	**33,0**	**30,0**	**22,0**	**19,7**	**40,0**
	3	**Med**	**33,0**	**38,0**	**35,5**	**28,5**	**26,0**	**19,0**	**18,0**	**36,0**
	2	**Min**	**27,0**	**33,0**	**28,8**	**19,6**	**21,0**	**15,0**	**18,0**	**30,0**
	1		24,4	31,0	27,0	16,0	19,0	14,0	17,0	**28,0**
Air 30	6		47,0	51,0	51,0	46,8	43,0	36,0	30,0	**52,0**
	5		44,0	48,0	47,0	43,0	38,0	30,0	24,0	**48,0**
	4	**Max**	**40,0**	**44,0**	**41,7**	**38,0**	**33,0**	**24,0**	**19,0**	**43,0**
	3	**Med**	**37,0**	**41,0**	**38,0**	**33,0**	**28,0**	**19,0**	**18,0**	**39,0**
	2	**Min**	**34,6**	**38,5**	**35,4**	**29,9**	**23,9**	**15,9**	**18,4**	**36,1**
	1		30,1	32,5	27,7	20,6	17,7	13,1	18,2	**29,1**
Air 40	6		50,0	52,0	49,0	48,0	47,0	38,0	30,0	**53,0**
	5		44,0	45,5	44,0	40,0	34,0	27,0	22,0	**45,0**
	4	**Max**	**39,0**	**42,0**	**39,3**	**34,4**	**27,0**	**20,0**	**20,0**	**40,0**
	3	**Med**	**34,0**	**38,0**	**34,0**	**28,5**	**21,0**	**18,0**	**19,0**	**35,0**
	2	**Min**	**30,0**	**34,0**	**31,7**	**25,0**	**18,0**	**16,0**	**18,0**	**32,0**
	1		25,0	27,6	22,8	14,8	13,0	14,0	18,0	**25,0**
Air 50	6		51,0	54,0	51,0	50,0	45,0	39,0	31,0	**54,0**
	5		44,0	47,0	43,8	42,0	35,0	28,0	21,0	**46,0**
	4	**Max**	**40,0**	**45,0**	**41,0**	**36,0**	**29,0**	**20,0**	**17,0**	**42,0**
	3	**Med**	**35,0**	**39,0**	**34,0**	**31,5**	**21,0**	**15,0**	**14,0**	**36,0**
	2	**Min**	**34,0**	**38,0**	**32,0**	**29,0**	**17,0**	**16,0**	**16,0**	**34,0**
	1		24,0	29,0	21,0	18,0	11,0	13,0	17,0	**25,0**
Air 60	6		50,0	53,0	52,0	48,0	50,0	40,0	33,0	**55,0**
	5		46,0	50,0	47,0	44,0	40,0	32,0	25,0	**49,0**
	4	**Max**	**41,0**	**45,0**	**42,0**	**37,0**	**31,8**	**24,0**	**23,0**	**43,0**
	3	**Med**	**36,0**	**43,0**	**36,3**	**28,9**	**24,5**	**21,0**	**23,0**	**38,0**
	2	**Min**	**33,0**	**37,0**	**31,0**	**23,0**	**20,0**	**20,0**	**24,0**	**33,0**
	1		29,6	34,0	26,0	17,0	17,0	20,0	24,0	**30,0**

TECHNICAL DATA

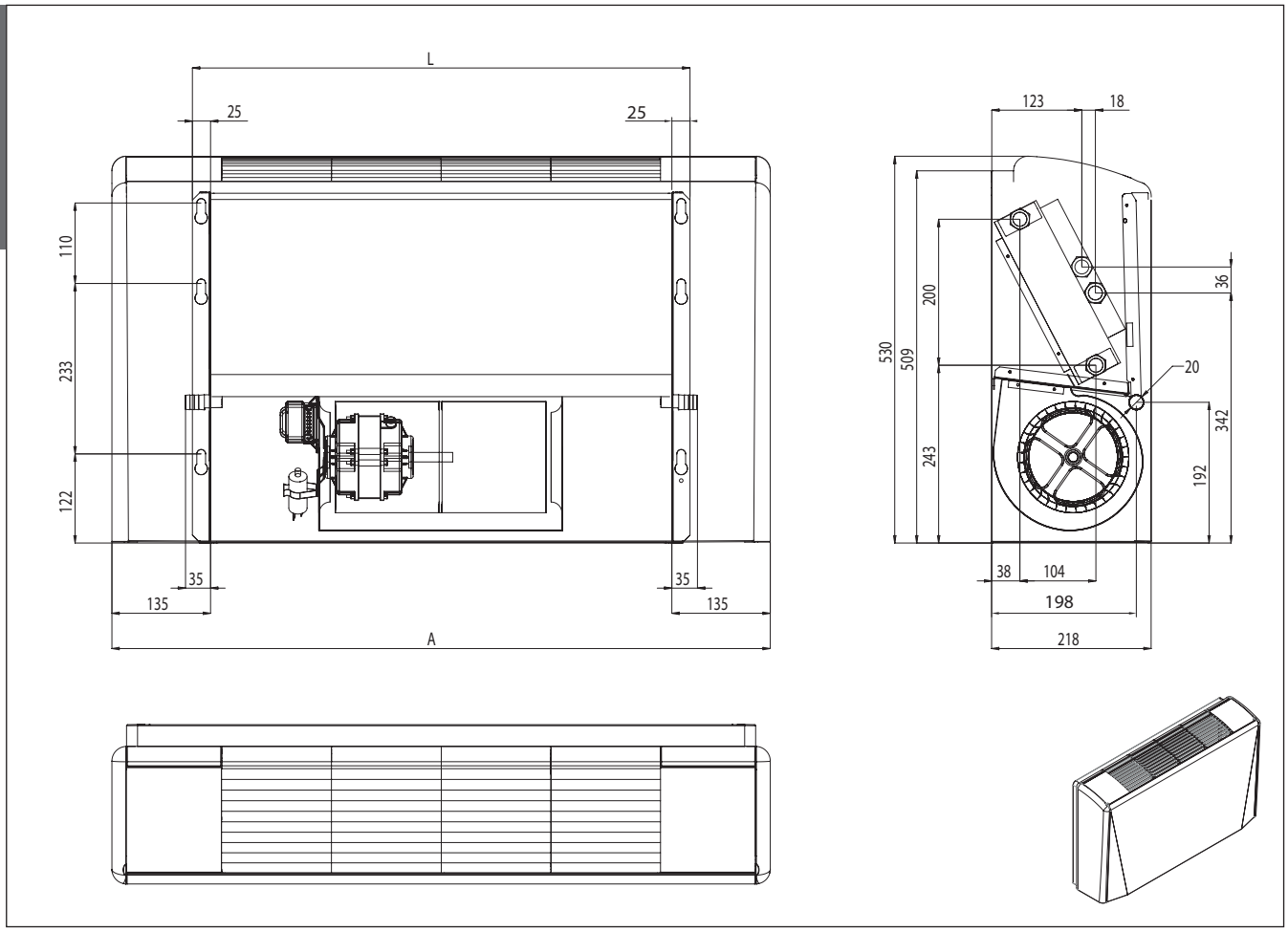
SOUND POWER SPECTRUM (4 PIPES)

Model	Speed	Standard electric wiring	Frequence spectrum - ref. octave band (Hz)							Total sound power [db(A)]
			125	250	500	1.000	2.000	4.000	8.000	
Air 70	6		51,0	55,0	53,0	52,0	51,0	43,0	37,0	**57,0**
	5		48,0	51,0	48,0	48,0	45,0	36,0	30,0	**52,0**
	4	**Max**	**46,0**	**50,0**	**47,0**	**44,0**	**40,0**	**32,0**	**25,0**	**49,0**
	3	**Med**	**41,0**	**45,0**	**42,0**	**37,0**	**31,8**	**24,0**	**23,0**	**43,0**
	2	**Min**	**35,0**	**39,0**	**36,0**	**31,6**	**24,0**	**19,0**	**21,0**	**37,0**
	1		32,0	37,0	33,0	27,0	20,0	19,0	21,0	**34,0**
Air 80	6		60,0	61,0	59,0	57,0	55,0	48,0	42,0	**62,0**
	5		56,0	58,0	56,0	53,0	53,0	45,0	39,0	**59,0**
	4	**Max**	**48,0**	**52,0**	**49,0**	**48,0**	**46,0**	**36,0**	**30,0**	**53,0**
	3	**Med**	**44,0**	**46,0**	**43,0**	**41,0**	**33,0**	**26,0**	**21,0**	**45,0**
	2	**Min**	**39,0**	**42,0**	**39,0**	**35,0**	**26,0**	**20,0**	**20,0**	**40,0**
	1		38,0	41,0	37,0	32,0	23,0	21,0	20,0	**38,0**
Air 90	6		59,0	61,0	59,0	57,0	55,0	48,0	42,0	**62,0**
	5		58,0	58,0	57,0	54,0	51,0	44,0	36,0	**59,0**
	4	**Max**	**51,0**	**55,0**	**53,0**	**52,0**	**51,0**	**44,0**	**37,0**	**57,0**
	3	**Med**	**48,0**	**52,0**	**49,0**	**48,0**	**46,0**	**36,0**	**30,0**	**53,0**
	2	**Min**	**47,0**	**48,0**	**46,0**	**42,0**	**35,0**	**26,0**	**26,0**	**47,0**
	1		42,0	45,0	42,0	37,7	29,5	24,0	25,0	**43,0**
Air 100	6		64,0	64,0	63,0	60,0	56,0	53,0	47,0	**65,0**
	5		60,0	63,0	62,0	58,7	56,0	51,0	45,0	**64,0**
	4	**Max**	**59,0**	**61,0**	**60,0**	**57,0**	**54,0**	**48,0**	**42,0**	**62,0**
	3	**Med**	**57,0**	**59,0**	**58,0**	**55,0**	**52,0**	**46,0**	**39,0**	**60,0**
	2	**Min**	**54,0**	**57,5**	**55,0**	**52,0**	**48,0**	**42,0**	**33,0**	**57,0**
	1		53,0	55,0	53,5	50,0	46,0	39,0	30,0	**55,0**

GENERAL DIMENSIONS

AIR M - Vertical and horizontal versions with cabinet (bottom air intake)

AIR M



Picture: size 30

		Dimensions [mm]		Grills
MOD.	CODE	A	L	n°
10	A0015130010	600	380	2
20	A0015130020	750	530	3
30	A0015130030	900	680	4
40	A0015130040	1050	830	5
50	A0015130050	1200	980	6
60	A0015130060	1350	1130	7
70	A0015130070	1500	1280	8
80	A0015130080	1500	1280	8
90	A0015130090	1650	1430	9
100	A0015130100	1800	1580	10

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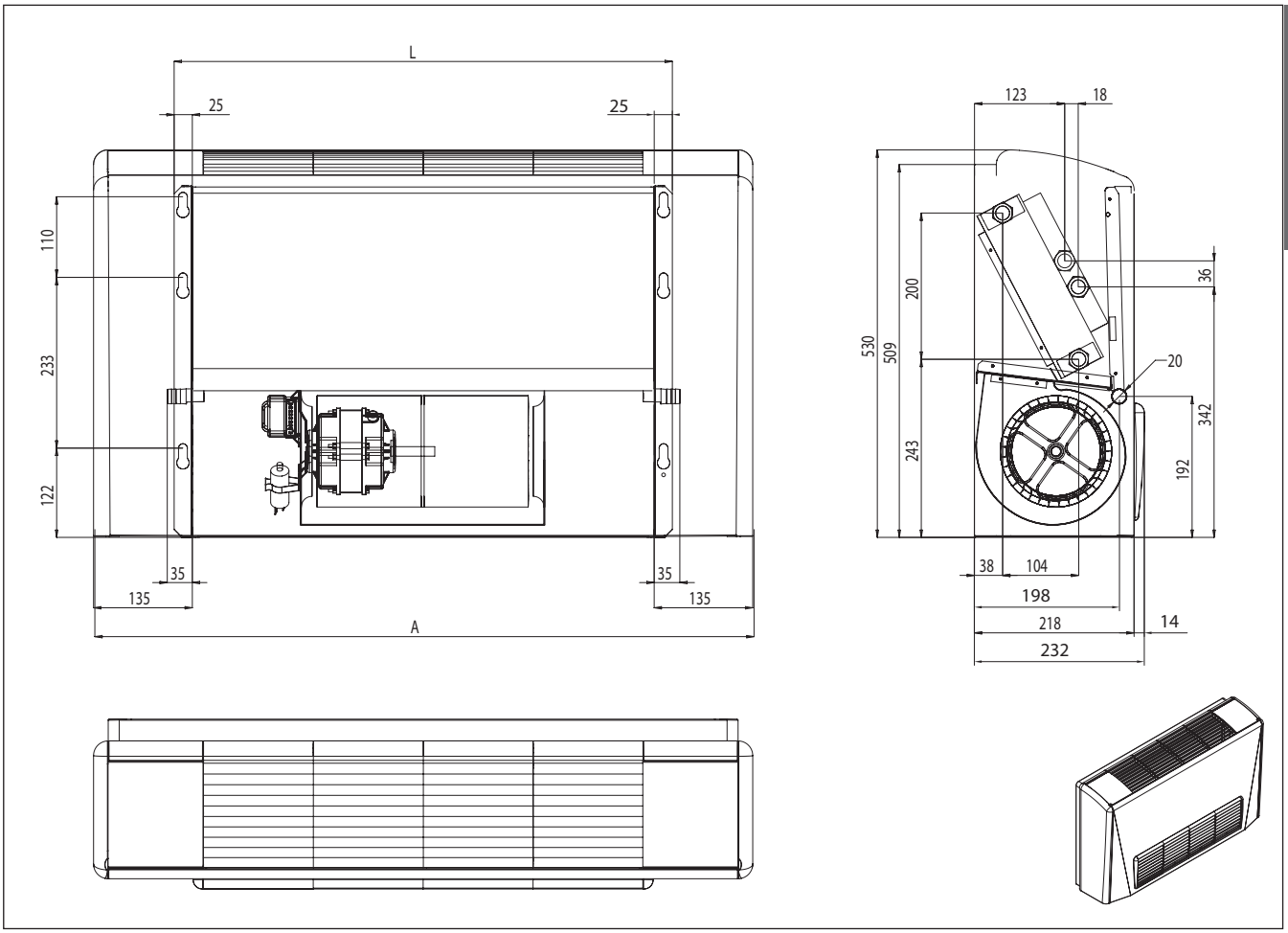
GENERAL DIMENSIONS

AIR MF - Vertical and horizontal versions with cabinet (frontal air intake)



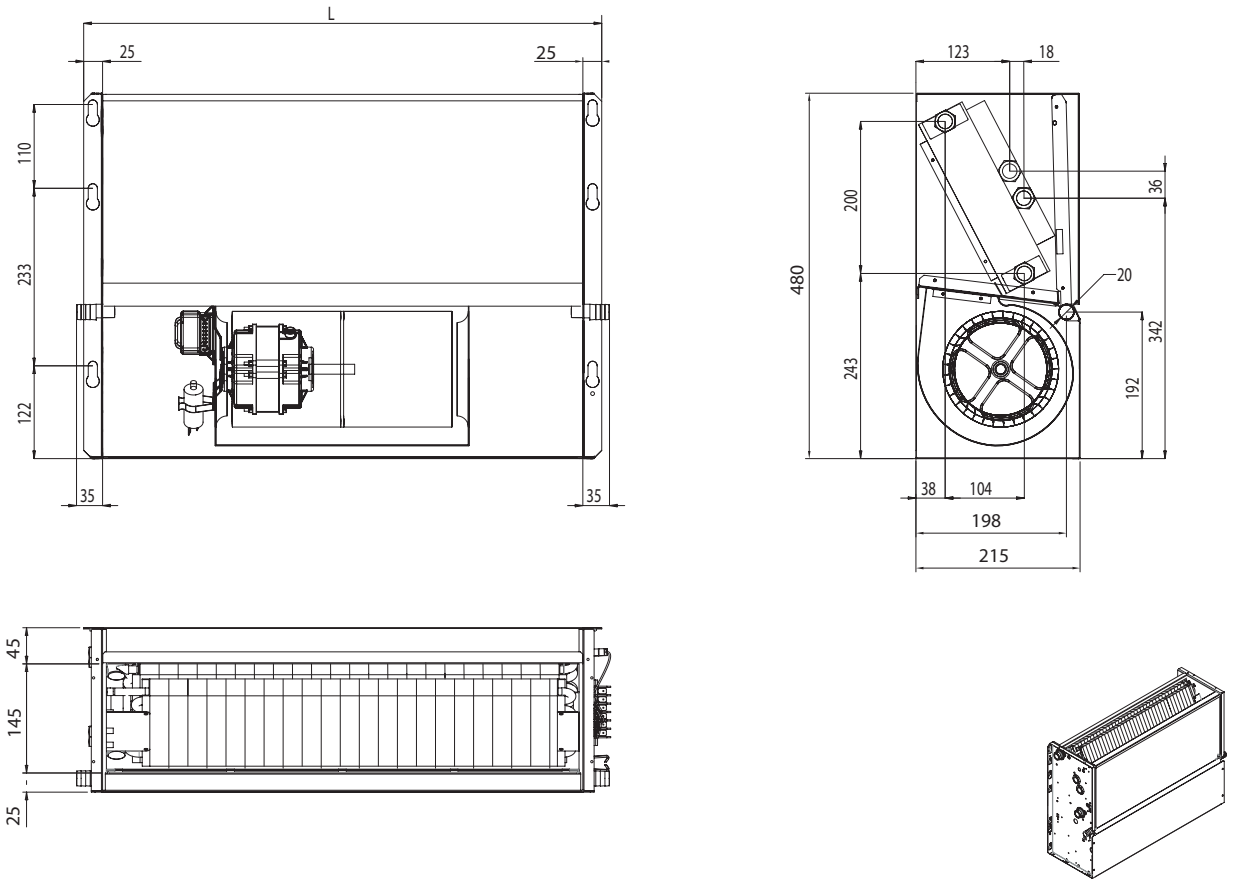
Picture: size 30

		Dimensions [mm]		Grills
MOD.	CODE	A	L	n°
10	A0015130015	600	380	2
20	A0015130025	750	530	3
30	A0015130035	900	680	4
40	A0015130045	1050	830	5
50	A0015130055	1200	980	6
60	A0015130065	1350	1130	7
70	A0015130075	1500	1280	8
80	A0015130085	1500	1280	8
90	A0015130095	1650	1430	9
100	A0015130105	1800	1580	10

GENERAL DIMENSIONS

AIR I - HORIZONTAL AND VERTICAL CONCEALED VERSIONS (BOTTOM AIR INTAKE)

AIR I



Picture: size 30

		Dimensions [mm]
MOD.	CODE	L
10	A0015130012	380
20	A0015130022	530
30	A0015130032	680
40	A0015130042	830
50	A0015130052	980
60	A0015130062	1130
70	A0015130072	1280
80	A0015130082	1280
90	A0015130092	1430
100	A0015130102	1580

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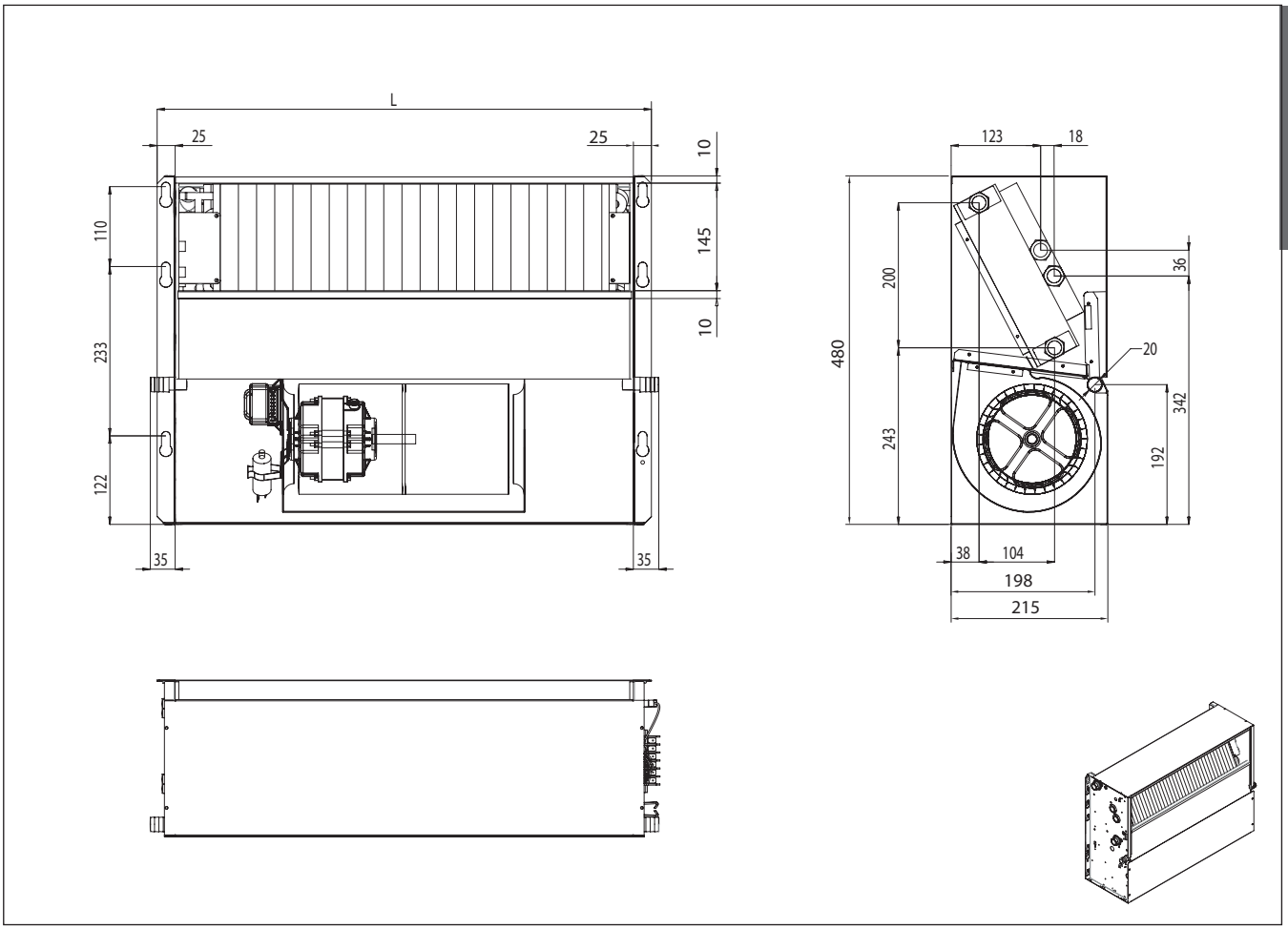
GENERAL DIMENSIONS

AIR IF - HORIZONTAL CONCEALED VERSIONS (FRONTAL AIR SUPPLY)



Picture: size 30

		Dimensions [mm]
MOD.	CODE	L
10	A0015130017	380
20	A0015130027	530
30	A0015130037	680
40	A0015130047	830
50	A0015130057	980
60	A0015130067	1130
70	A0015130077	1280
80	A0015130087	1280
90	A0015130097	1430
100	A0015130107	1580

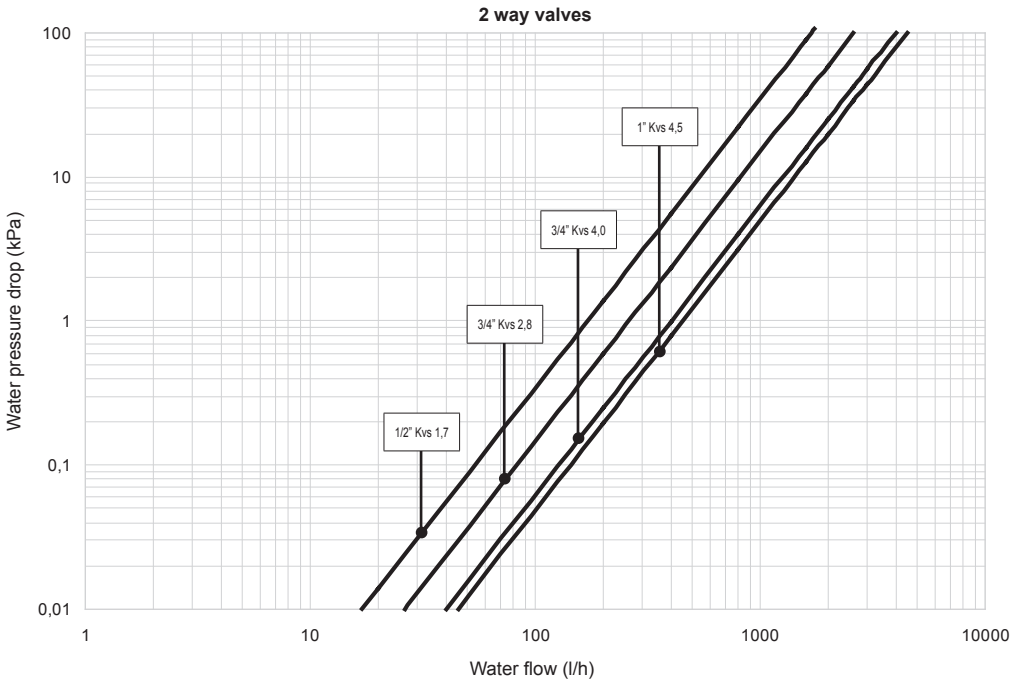
VALVES

2 WAY VALVE KIT

2-way valve kits are available.
The valve body is made of brass; the shutter is controlled by an ON/OFF type or modulating electrothermal actuator (230Vac/24Vac input).
During functioning the electrothermal actuator is completely silent.
The kit is provided with valve body, electrothermal actuator, flared copper fittings, ring nuts and gaskets to fix it to the fan coil unit. The valve kit is already mounted onto the fan coil unit, complete with the water and electrical connections necessary to make the unit work. When placing the order, please specify the fan coil unit model and the coil (standard or auxiliary) the kit refers to.

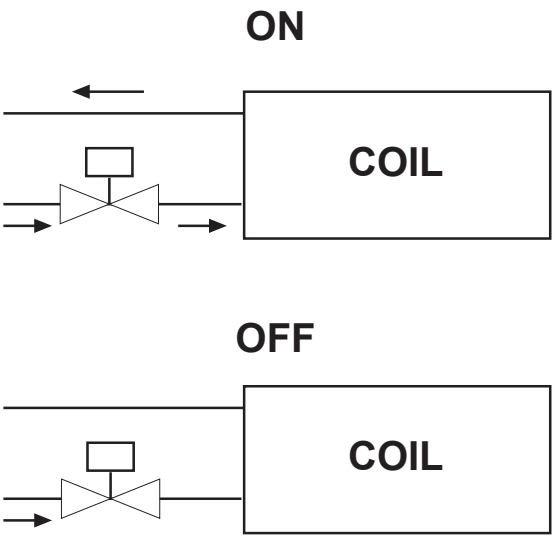
Technical data:	
Max. pressure	8 bar
Fluid Min - Max temperature	4 - 80 °C
Liquids allowed	Water with glycol < 30%
Shutter stroke	2.5 mm
Bypass leakage	< 0,02 % Kvs
Actuator attachment	Threaded ferrule M 30 x 1.5

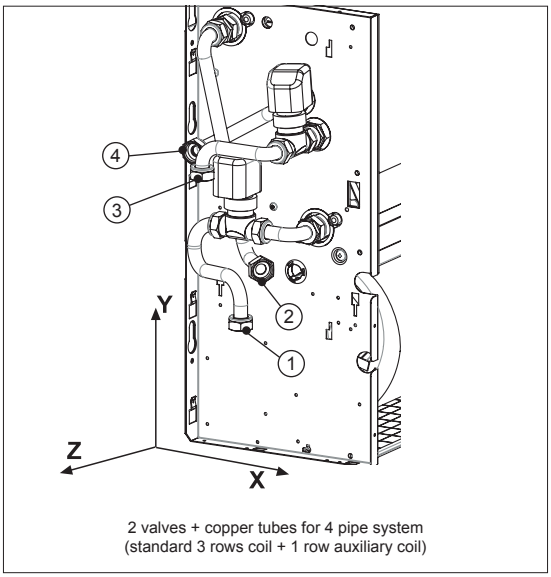
	AIR 10	AIR 20	AIR 30	AIR 40	AIR 50	AIR 60	AIR 70	AIR 80	AIR 90	AIR 100
Coil	3R	3R	3R	3R	3R	3R	3R	3R	3R	3R
Ø Valve fittings	1/2”	1/2”	1/2”	1/2”	1/2”	3/4”	3/4”	3/4”	3/4”	3/4”
KVS	1,7	1,7	1,7	1,7	1,7	2,8	2,8	2,8	4,0	4,0
Coil	1R	1R	1R	1R	1R	1R	1R	1R	1R	1R
Ø Valve fittings	1/2”	1/2”	1/2”	1/2”	1/2”	1/2”	1/2”	1/2”	1/2”	1/2”
KVS	1,7	1,7	1,7	1,7	1,7	1,7	1,7	1,7	1,7	1,7
Coil	4R	4R	4R	4R	4R	4R	4R	4R	4R	4R
Ø Valve fittings	1/2”	1/2”	1/2”	3/4”	3/4”	3/4”	3/4”	3/4”	3/4”	3/4”
KVS	1,7	1,7	1,7	2,8	2,8	2,8	2,8	4,0	4,0	4,0



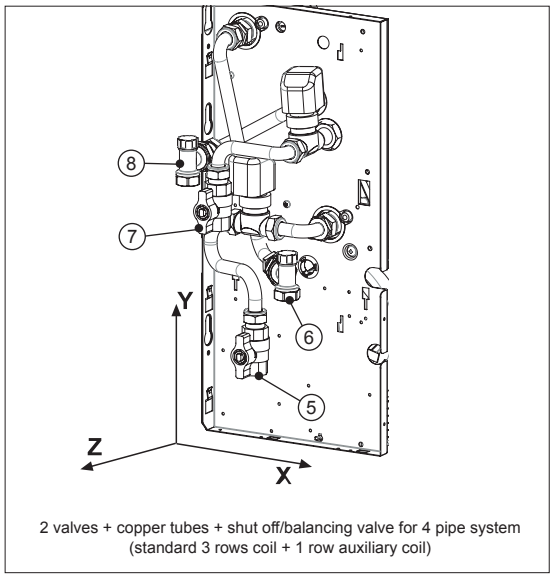
VALVES

2 WAY VALVE KIT





2 valves + copper tubes for 4 pipe system
(standard 3 rows coil + 1 row auxiliary coil)



2 valves + copper tubes + shut off/balancing valve for 4 pipe system
(standard 3 rows coil + 1 row auxiliary coil)

		Air 10-50				Air 60-100			
Coil	**Rif.**	**X**	**Y**	**Z**	**Ø pipe fittings**	**X**	**Y**	**Z**	**Ø pipe fittings**
Standard	1	100	157	85	1/2" F	97	157	87	3/4" F
	2	98	202	40	1/2" F	92	202	46	3/4" F
Auxiliary	3	72	314	96	1/2" F	60	315	96	1/2" F
	4	18	315	35	1/2" F	18	315	35	1/2" F
Standard	5	100	92	85	1/2" F	97	102	87	3/4" F
	6	134	178	77	1/2" F	137	173	90	3/4" F
Auxiliary	7	72	250	96	1/2" F	60	250	96	1/2" F
	8	18	291	88	1/2" F	18	292	88	1/2" F

F = female gas fittings | M = male gas fittings

Copper fittings for valve are different between right and left installation.
When ordering, please specify the position of the hydraulic connections.
If hydraulic connections have to be modified on site, it's necessary to order the correct installation kit.

VALVES

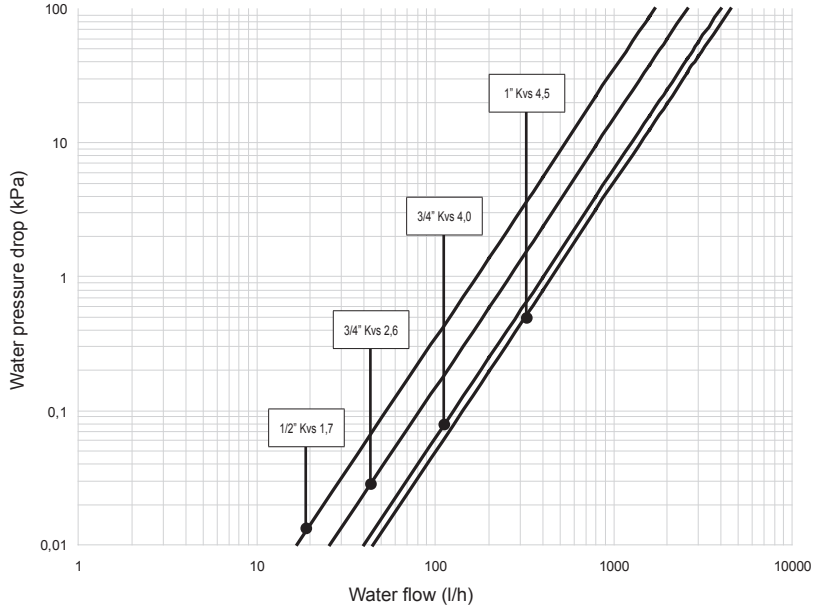
3 WAY VALVE KIT

ON/OFF 3-way valve kits with bypass (4 fittings) are available. The valve body is made of brass; the shutter is controlled by an ON/OFF electrothermal actuator (230 Vac input). When there is no power supply, the valve is closed. During functioning the electrothermal actuator is completely silent. The kit is provided with valve body, electrothermal actuator, flared copper fittings, ring nuts and gaskets to fix it to the fan coil unit. The valve kit is already mounted onto the fan coil unit, complete with the water and electrical connections necessary to make the unit work. When placing the order, please specify the fan coil unit model and the coil (standard or auxiliary) the kit refers to.

Technical data:	
Max. pressure	8 bar
Fluid Min - Max temperature	4 - 80 °C
Liquids allowed	Water with glycol < 30%
Shutter stroke	2.5 mm
Bypass leakage	< 0,02 % Kvs
Actuator attachment	Threaded ferrule M 30 x 1.5

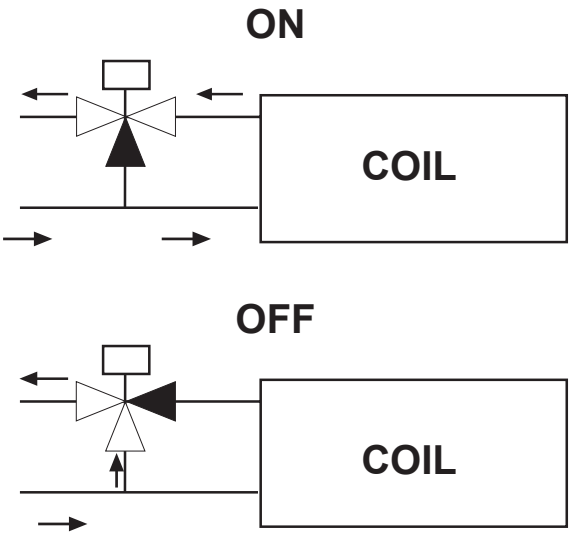
		AIR 10	AIR 20	AIR 30	AIR 40	AIR 50	AIR 60	AIR 70	AIR 80	AIR 90	AIR 100
Coil		3R	3R	3R	3R	3R	3R	3R	3R	3R	3R
Ø Valve fittings		1/2”	1/2”	1/2”	1/2”	1/2”	3/4”	3/4”	3/4”	3/4”	3/4”
KVS	main	1,7	1,7	1,7	1,7	1,7	2,8	2,8	2,8	4,0	4,0
	by pass	1,2	1,2	1,2	1,2	1,2	1,8	1,8	1,8	1,8	1,8
Coil		1R	1R	1R	1R	1R	1R	1R	1R	1R	1R
Ø Valve fittings		1/2”	1/2”	1/2”	1/2”	1/2”	1/2”	1/2”	1/2”	1/2”	1/2”
KVS	main	1,7	1,7	1,7	1,7	1,7	1,7	1,7	1,7	1,7	1,7
	by pass	1,2	1,2	1,2	1,2	1,2	1,2	1,2	1,2	1,2	1,2
Coil		4R	4R	4R	4R	4R	4R	4R	4R	4R	4R
Ø Valve fittings		1/2”	1/2”	1/2”	3/4”	3/4”	3/4”	3/4”	3/4”	3/4”	3/4”
KVS	main	1,7	1,7	1,7	2,8	2,8	2,8	2,8	4,0	4,0	4,0
	by pass	1,2	1,2	1,2	1,8	1,8	1,8	1,8	1,8	3,1	3,1

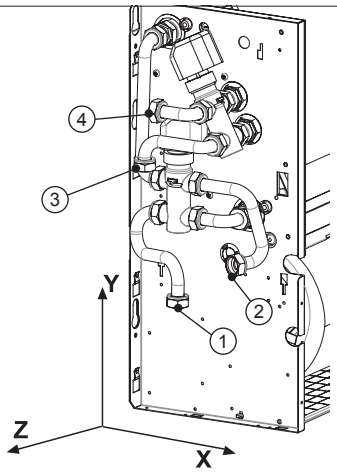
2 way valves - MAIN WAY



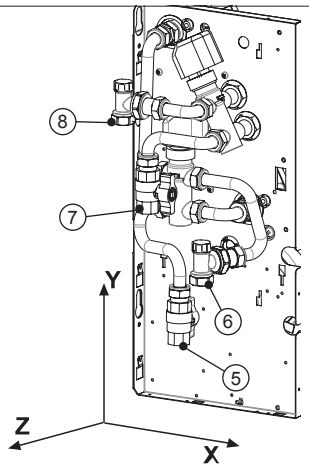
VALVES

3 WAY VALVE KIT





2 valves + copper tubes for 4 pipe system
(standard 3 rows coil + 1 row auxiliary coil)



2 valves + copper tubes + shut off/balancing valve for 4 pipe system
(standard 3 rows coil + 1 row auxiliary coil)

		Air 10-50				Air 60-100			
Coil	**Rif.**	**X**	**Y**	**Z**	**Ø pipe fittings**	**X**	**Y**	**Z**	**Ø pipe fittings**
Standard	1	100	158	90	1/2" F	90	157	88	3/4" F
	2	150	193	40	1/2" F	154	195	30	3/4" F
Auxiliary	3	60	315	95	1/2" F	60	315	95	1/2" F
	4	80	377	95	1/2" F	80	377	95	1/2" F
Standard	5	100	95	90	1/2" F	90	100	88	3/4" F
	6	128	170	88	1/2" F	130	165	90	3/4" F
Auxiliary	7	60	250	95	1/2" F	60	250	95	1/2" F
	8	27	352	95	1/2" F	27	353	95	1/2" F

F = female gas fittings | M = male gas fittings

Copper fittings for valve are different between right and left installation.
When ordering, please specify the position of the hydraulic connections.
If hydraulic connections have to be modified on site, it's necessary to order the correct installation kit.

VALVES

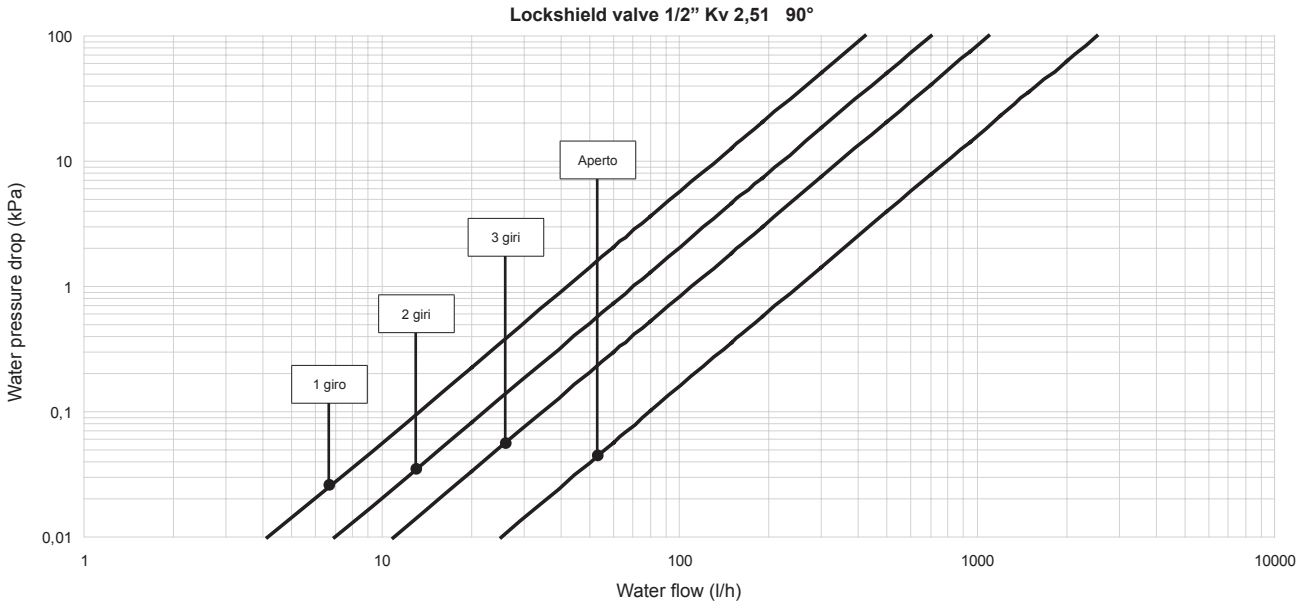
SHUT OFF/LOCKSHIELD VALVE

Ball and lockshield valve kits are available for a proper balancing of the system.
The kit is already mounted onto the fan coil unit.

LOCKSHIELD VALVE Technical data:	
Maximum pressure	8 bar
Fluid min temperature	4 °C
Fluid max temperature	80°C
Liquids allowed	Water with glycol < 30%

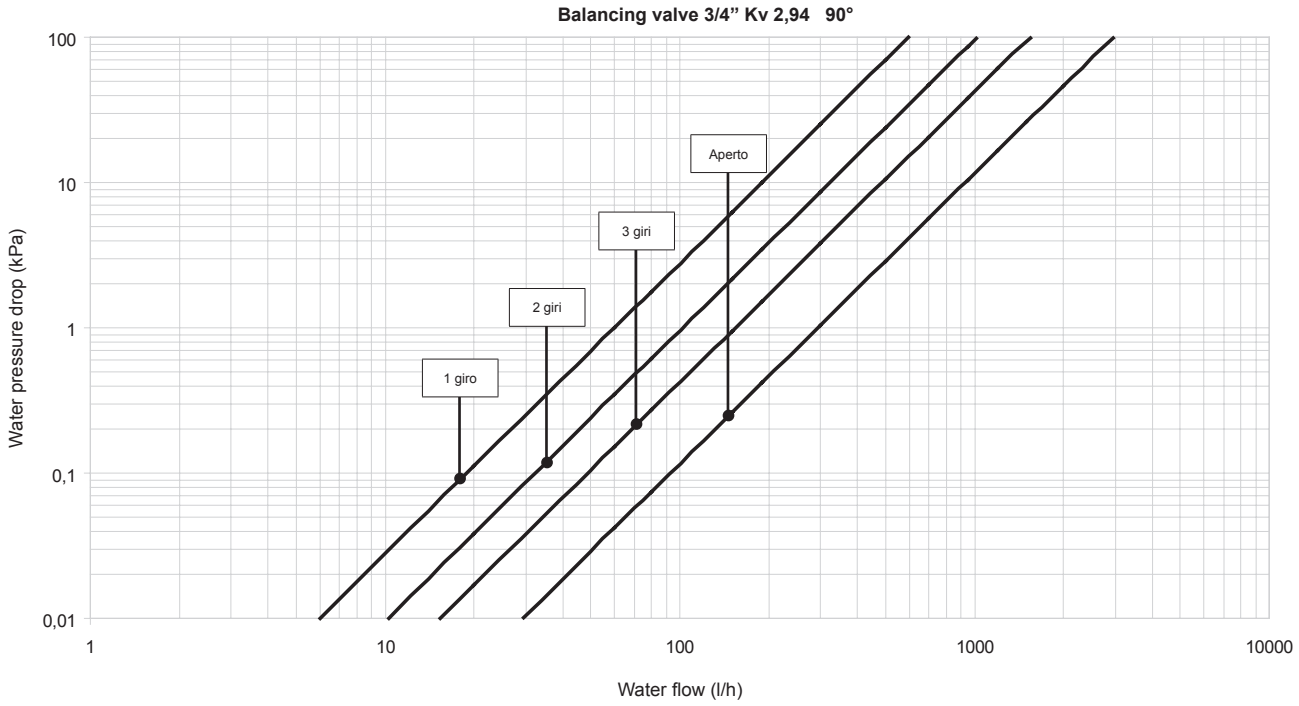
LOCKSHIELD VALVE:

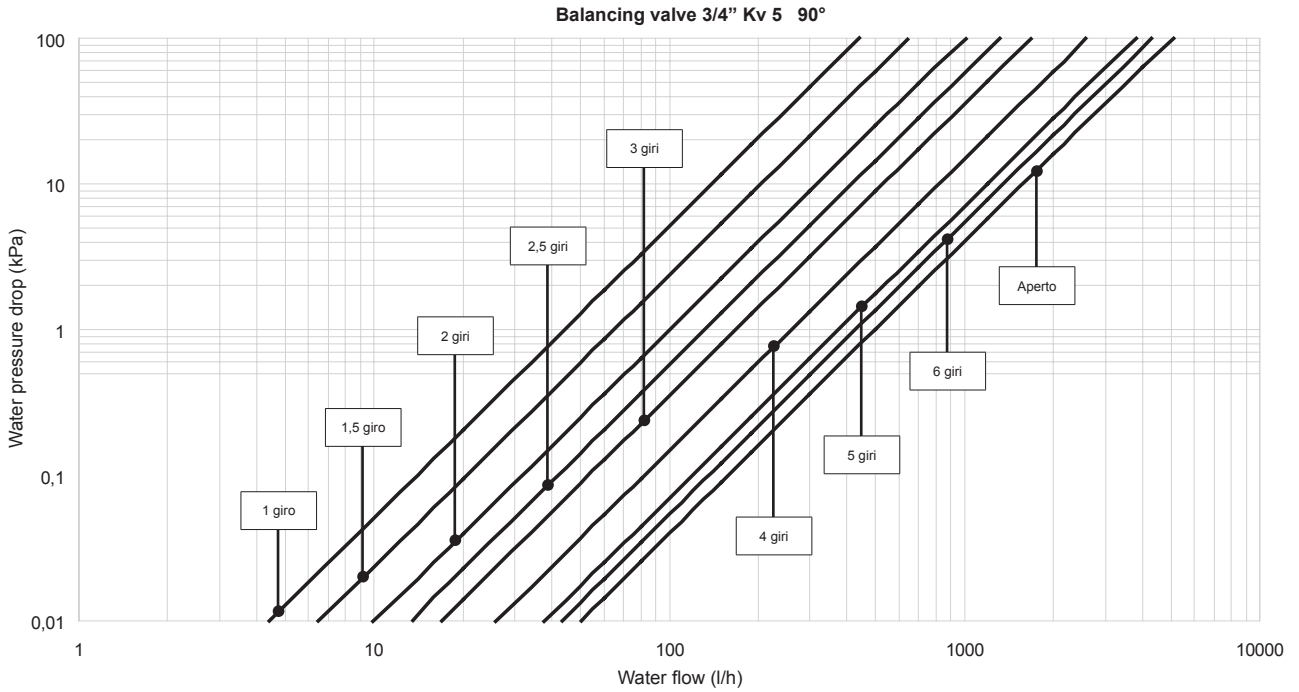
	AIR 10	AIR 20	AIR 30	AIR 40	AIR 50	AIR 60	AIR 70	AIR 80	AIR 90	AIR 100
Coil	3R	3R	3R	3R	3R	3R	3R	3R	3R	3R
Ø Valve fittings	1/2”	1/2”	1/2”	1/2”	1/2”	3/4”	3/4”	3/4”	3/4”	3/4”
KVS	2,51	2,51	2,51	2,51	2,51	2,94	2,94	2,94	5,0	5,0
Coil	1R	1R	1R	1R	1R	1R	1R	1R	1R	1R
Ø Valve fittings	1/2”	1/2”	1/2”	1/2”	1/2”	1/2”	1/2”	1/2”	1/2”	1/2”
KVS	2,51	2,51	2,51	2,51	2,51	2,51	2,51	2,51	2,51	2,51
Coil	4R	4R	4R	4R	4R	4R	4R	4R	4R	4R
Ø Valve fittings	1/2”	1/2”	1/2”	3/4”	3/4”	3/4”	3/4”	3/4”	3/4”	3/4”
KVS	2,51	2,51	2,51	2,94	2,94	5,0	5,0	5,0	5,0	5,0



VALVES

SHUT OFF/BALANCING VALVE





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VALVES

ACTUATORS

Technical characteristics		
Action		ON/OFF
Power supply		24 / 230 V AC/DC (+10% -15%); 50 / 60 Hz
Steady state power consumption		2,5 W
Initial opening time (NC) or closing time (NA) (power ON)	230V	90 s
Final opening time (NC) or closing time (NA) (power ON)		3 min
Initial opening time (NC) or closing time (NA) (power ON)	24V	3 min
Final opening time (NC) or closing time (NA) (power ON)		5 min
Actuator stroke		max 3.5 mm
Valve stroke		2.5 mm
Protection level		IP44
Limit room temperature		0 a 50 °C
Limit storage temperature		-25 a 60 °C no condensation
Valve fluid max temperature		Max 110 °C
Nominal thrust (power OFF) (NC)		140 N (±10%)
Nominal thrust (power OFF) (NA)		80 N (±10%)

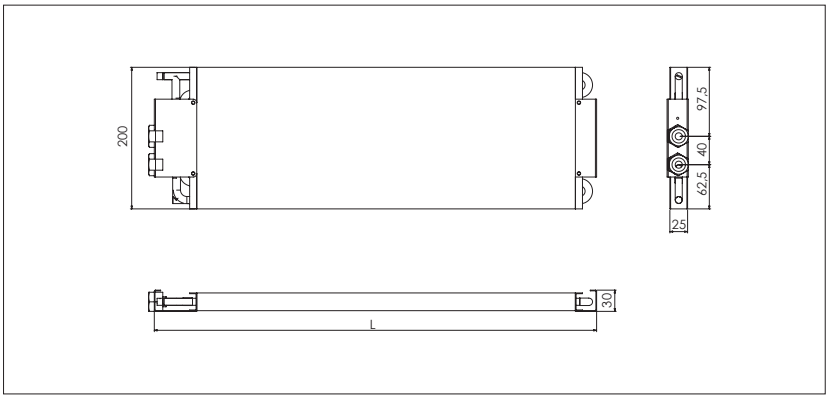
Action	Proportional (0...10 V)
Power supply	50/60 Hz 24Vac ±15%
Steady state power consumption	2W
Stroke time	15 sec/mm
Maximum stroke	4 mm
Protection level	IP 40
Limit room temperature	0 a 50 °C
Limit storage temperature	-25 a 65 °C no condensation
Valve fluid max temperature	95 °C
Nominal thrust	120 N (+30%)

ACCESSORIES

1 ROW AUXILIARY COIL

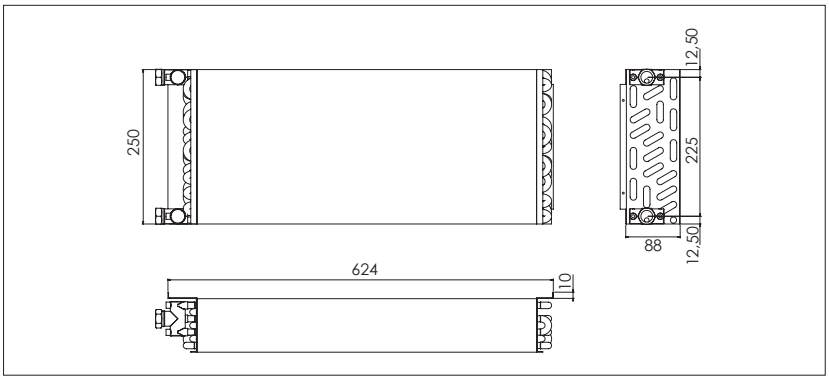
It is used in 4-pipe systems with 2 independent hydraulic circuits -one for cooling and one for heating.
In this case the auxiliary coil is used for heating.
Its manufacture characteristics are similar to those of the main coil, with inlet/outlet brass headers and air valves. The fitting diameter is 1/2" with internal GAS thread. When placing the order, please specify the fan coil unit model on which the auxiliary coil shall be installed.

		Dimensions [mm]
MOD.	CODE	L
10	A0055560301	325
20	A0055560302	475
30	A0055560303	625
40	A0055560304	775
50	A0055560305	925
60	A0055560306	1075
70	A0055560307	1225
80	A0055560308	1225
90	A0055560309	1375
100	A0055560310	1525



4 ROWS COIL

		Dimensions [mm]
MOD.	CODE	L
10	A0055560311	324
20	A0055560312	474
30	A0055560313	624
40	A0055560314	774
50	A0055560315	924
60	A0055560316	1074
70	A0055560317	1224
80	A0055560318	1224
90	A0055560319	1374
100	A0055560320	1524



DIRECT EXPANSION COIL

		Dimensions [mm]
MOD.	CODE	L
10	A0055560321	324
20	A0055560322	474
30	A0055560323	624
40	A0055560324	774
50	A0055560325	924
60	A0055560326	1074
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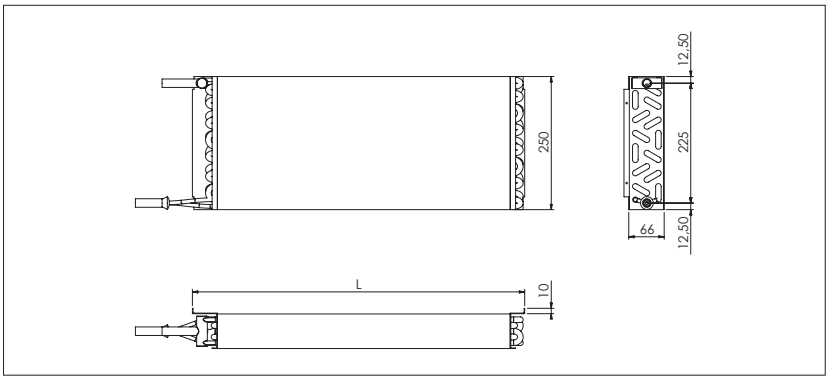
90	A0055560329	1374
100	A0055560330	1524



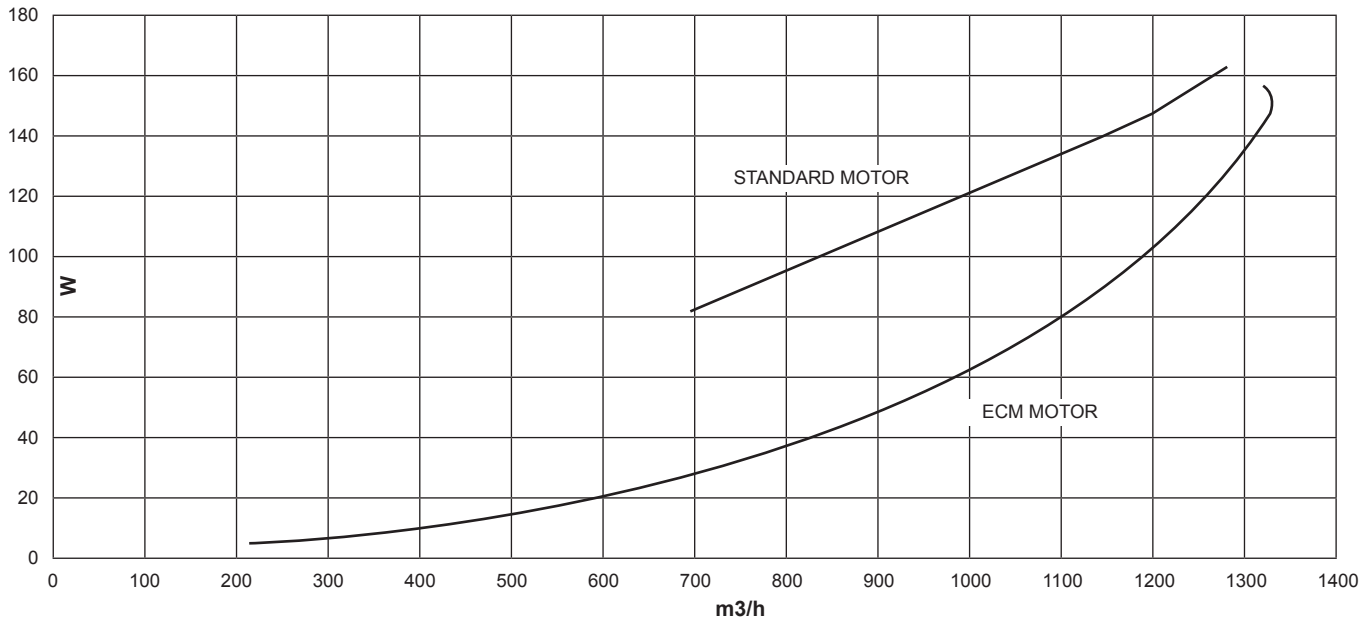
MOTOR

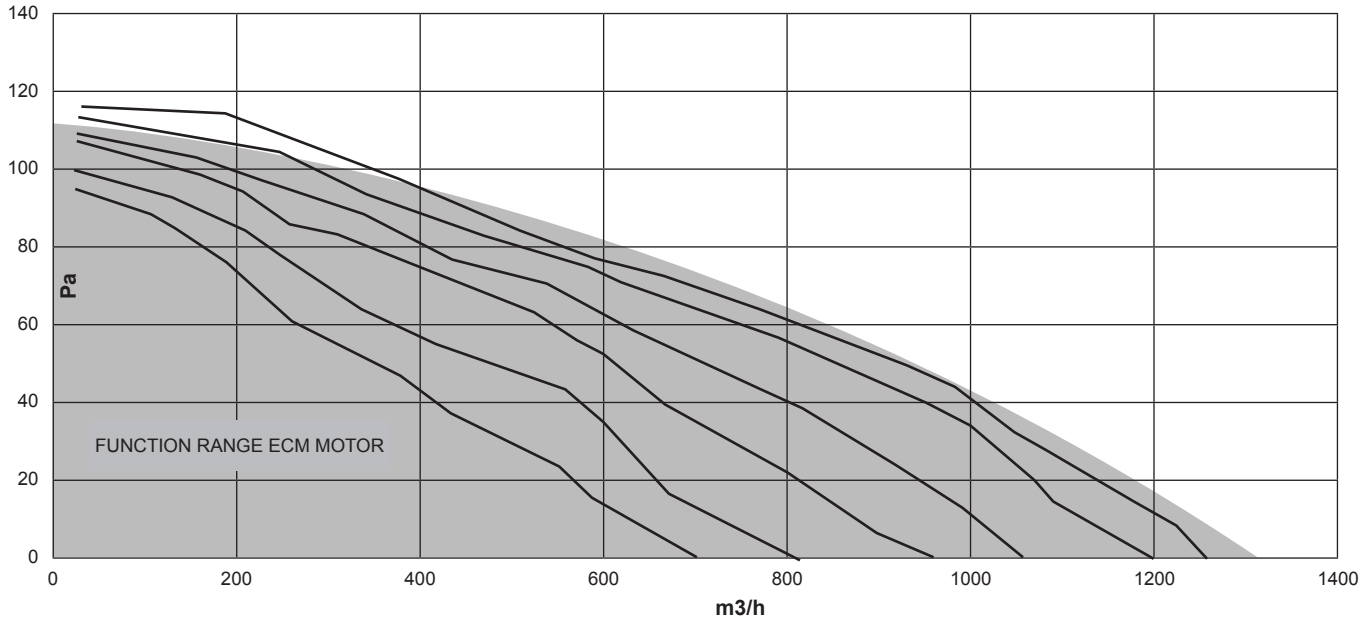
LOW CONSUPTION ECM MOTOR TYPE

The ECM motor it's an elettric permanent magnet device and, unlike traditional brush motors, it doesn't need of sliding electrical contacts on the crankshaft to operate. The switching of the current circulating in the windings no longer occurs mechanically (by means of sliding contacts), but electronically;
this means:
- less mechanical friction;
- reduces the chance of forming sparks as the rotation speed increases;
- greatly reduces the need for periodic maintenance.

Everything is managed by an electronic device that control continously all the main engine parameters.

Benefits:
- The magnetic field of the rotor, generated by the magnets and not by the brushes, considerably reduces the loss of both energy electrical and mechanical;
- Thanks to the electronic control it is possible to change the rotation speed continuously;
- Greater efficiency of the flow (with the same air flow, it has a lower consumption of electricity);
- The absence of brushes eliminates the main source of electromagnetic noise, compared with other electric motors, increase the expected life of the motor.



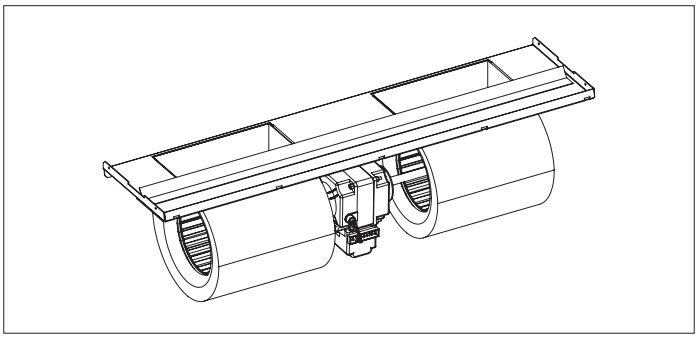


2019-1

ACCESSORIES

HIGH PRESSURE MOTOR

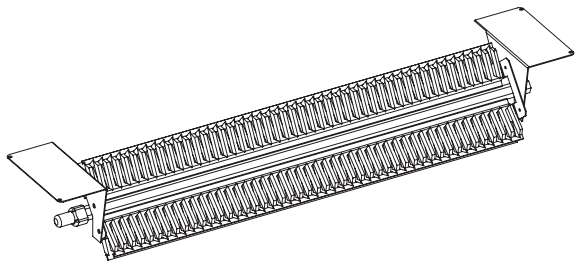
		Heating capacity	
MOD.	CODE	W	A
20	A0055660092	98	0.44
30	A0055660093	101	0.46
40	A0055660094	120	0.53
50	A0055660095	135	0.60
60	A0055660096	162	0.71
70	A0055660097	163	0.85



ELECTRIC HEATER

The heating element is used in the heating phase to supplement the main coil thermal power or as the only heating element. The kit includes the heating element with aluminium heat sink, the safety thermostat, the control relay, and the corresponding connections and it is already mounted onto the fan coil unit and complete with all the electrical connections.

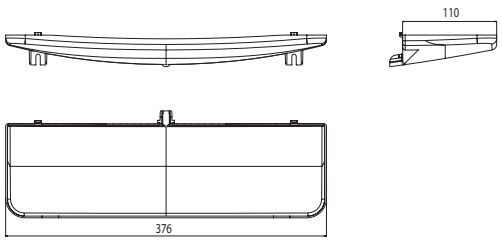
	Air xxM	Air xxI	Heating capacity	
MOD.	CODE	CODE	W	A
10	A0055550100	A0055550110	600	2,6
20	A0055550101	A0055550111	600	2,6
30	A0055550102	A0055550112	1500	6,5
40	A0055550103	A0055550113	1500	6,5
50	A0055550104	A0055550114	2500	10,9
60	A0055550105	A0055550115	2500	10,9
70	A0055550106	A0055550116	3000	13
80	A0055550107	A0055550117	3000	13
90	A0055550108	A0055550118	3000	13
100	A0055550109	A0055550119	3000	13



ELECTRICAL SUPPLY:
230V/1Ph/50Hz

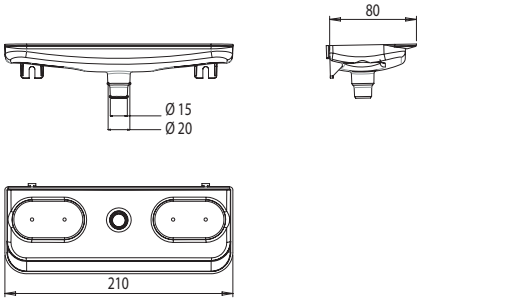
CONDENSATE DRAIN PAN

In ABS, the auxiliary pan enables to collect the condensate which may drip from the valves and the unit connecting pipes.
Horizontal for ceiling-mounted fan coil units.
Vertical for wall-mounted fan coil units.



HORIZONTAL

MOD.	CODE
10-100	A0055640101



VERTICAL

MOD.	CODE
10-100	A0055640100

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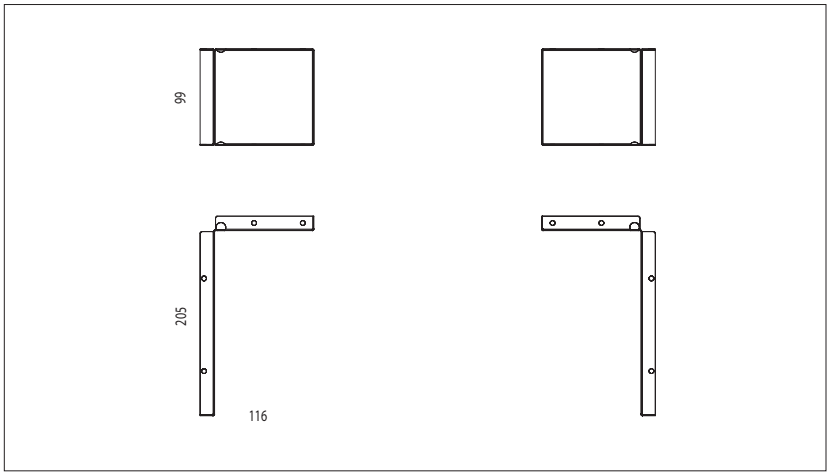
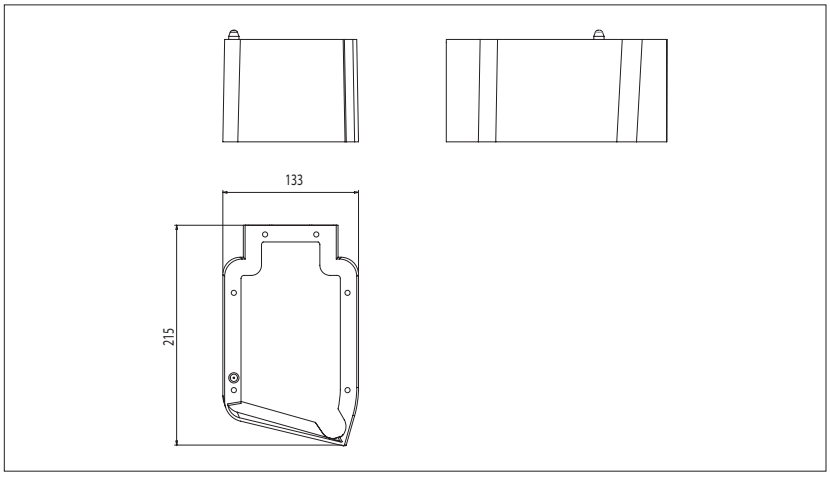
ACCESSORIES

RECESSED FEET



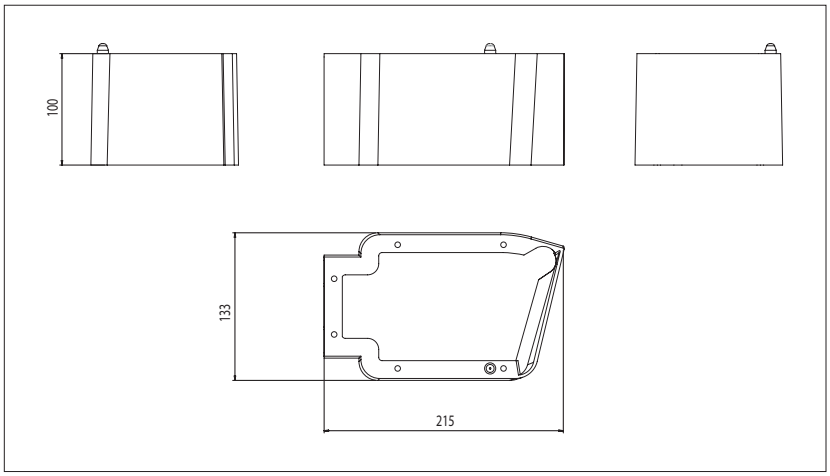
MOD.	CODE
10-100	A0055490050

PLASTIC FEET



MOD.	CODE
10-100	A0055490051

PLASTIC FEET + PAINTED BACK PANEL



MOD.	CODE
10-100	A0055490052

2019-1

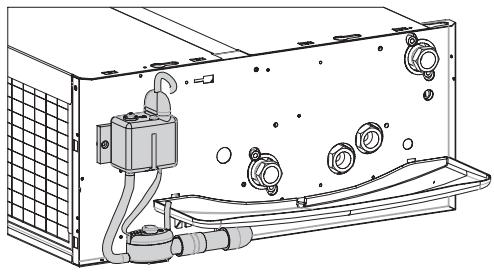
ACCESSORIES

CONDENSATE DRAIN PUMP

It is used to eliminate the condensate water collected into the pan should the drop-out drain not be allowed by the installation model. The pump is an oscillating piston pump made up of a pump unit and a detection system with a 3-level float (ON/OFF/Alarm).

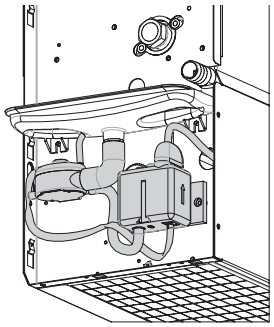
PUMP INTERLOCK Alarm contact which enables to stop supplying power to equipment such as compressors or solenoid valves and to stop the production of condensate, electrical connections with outlet (1 m cable provided), thermal protection (90°C), rubber mounting bracket.

DETECTION INTERLOCK With outlet before/after the filter, good sealing, connectable breather pipe.



version **HORIZONTAL**

MOD.	CODE
10-60	A0055650020
70-100	A0055650021



version **VERTICAL**

MOD.	CODE
10-60	A0055650022
70-100	A0055650023

For model from Air 10 to Air 60	
Power supply	220-240V ~ 50-60 Hz
Power consuption	19 W
Max. water flow	10 liters/hour
Maximum intake	1 meter
Maximum head	6 meters
Alarm contact	NC 5 A resistive
Thermal protection (overheating)	70°C
Sound level	< 30 dB(A) a 1 m
Pump unit dimensions	L 85 x W 28 x H 60 mm
Detention dimensions	L 78 x W 38 x H 37 mm

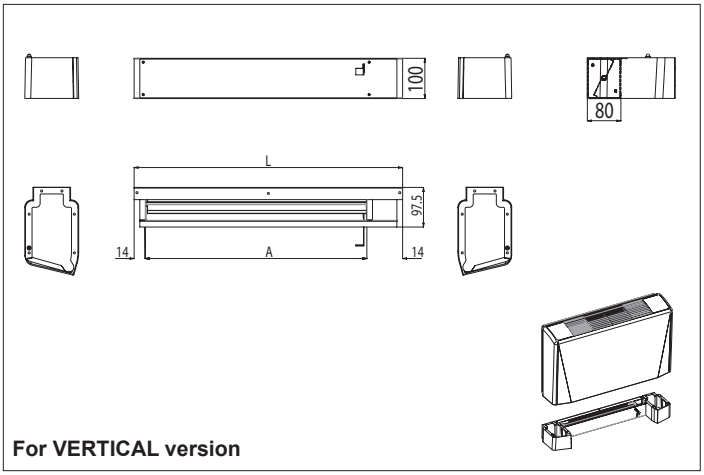
For model from Air 70 to Air 100	
Power supply	220-240V ~ 50-60 Hz
Power consuption	19 W
Max. water flow	10 liters/hour
Maximum intake	1 meter
Maximum head	6 meters
Alarm contact	NC 5 A resistive
Thermal protection (overheating)	70°C
Sound level	< 30 dB(A) a 1 m
Pump unit dimensions	L 85 x W 28 x H 60 mm
Detention dimensions	L 78 x W 38 x H 37 mm

FRESH AIR LOUVER

The air lock is made of galvanised steel sheet and it may be provided with either manual control (located nearby the air lock itself) or electric servo control. It may be installed in both vertical (wall) or horizontal (ceiling) versions. For a proper installation, the fan coil unit must be equipped with a base for air intake.

Air flow rate: Internal: 92% External: 8% Total: 100%

Air M vertical		L	A
MOD.	CODE	mm	mm
10	A0055470100	360	242
20	A0055470101	510	392
30	A0055470102	660	542
40	A0055470103	810	692
50	A0055470104	960	842
60	A0055470105	1110	992
70	A0055470106	1260	1142
80	A0055470107	1260	1142
90	A0055470108	1410	1292
100	A0055470109	1560	1442



For VERTICAL version

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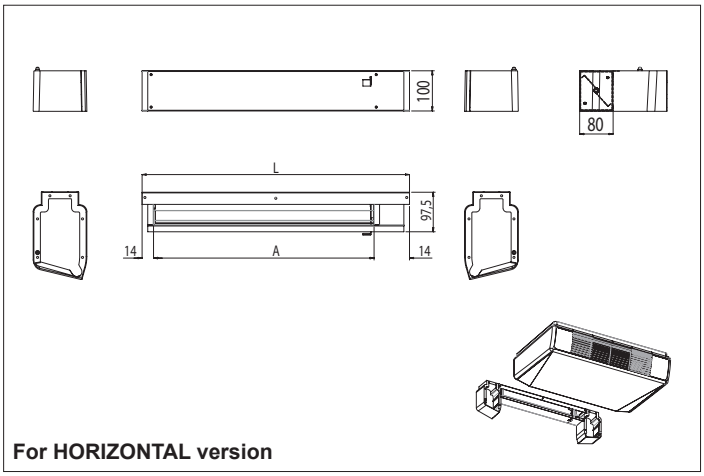
ACCESSORIES

FRESH AIR LOUVER

The air lock is made of galvanised steel sheet and it may be provided with either manual control (located nearby the air lock itself) or electric servo control. It may be installed in both vertical (wall) or horizontal (ceiling) versions. For a proper installation, the fan coil unit must be equipped with a base for air intake.

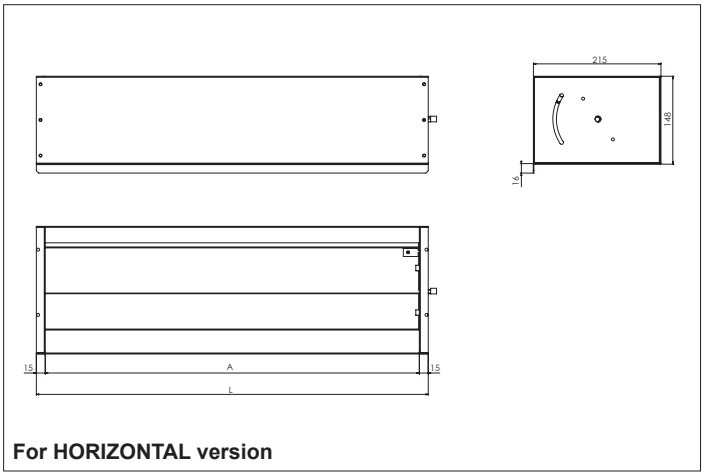
Air flow rate: Internal: 92% External: 8% Total: 100%

Air M horizontal		L	A
MOD.	CODE	mm	mm
10	A0055470110	360	242
20	A0055470111	510	392
30	A0055470112	660	542
40	A0055470113	810	692
50	A0055470114	960	842
60	A0055470115	1110	992
70	A0055470116	1260	1142
80	A0055470117	1260	1142
90	A0055470118	1410	1292
100	A0055470119	1560	1442



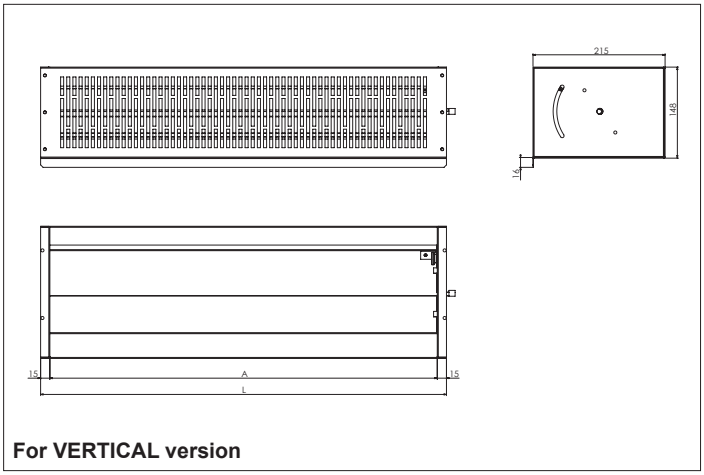
For HORIZONTAL version

Air I		L	A
MOD.	CODE	mm	mm
10	A0055470140	360	330
20	A0055470141	510	480
30	A0055470142	660	630
40	A0055470143	810	780
50	A0055470144	960	930
60	A0055470145	1110	1080
70	A0055470146	1260	1230
80	A0055470147	1260	1230
90	A0055470148	1410	1380
100	A0055470149	1560	1530



For HORIZONTAL version

Air IF		L	A
MOD.	CODE	mm	mm
10	A0055470130	360	330
20	A0055470131	510	480
30	A0055470132	660	630
40	A0055470133	810	780
50	A0055470134	960	930
60	A0055470135	1110	1080
70	A0055470136	1260	1230
80	A0055470137	1260	1230
90	A0055470138	1410	1380
100	A0055470139	1560	1530



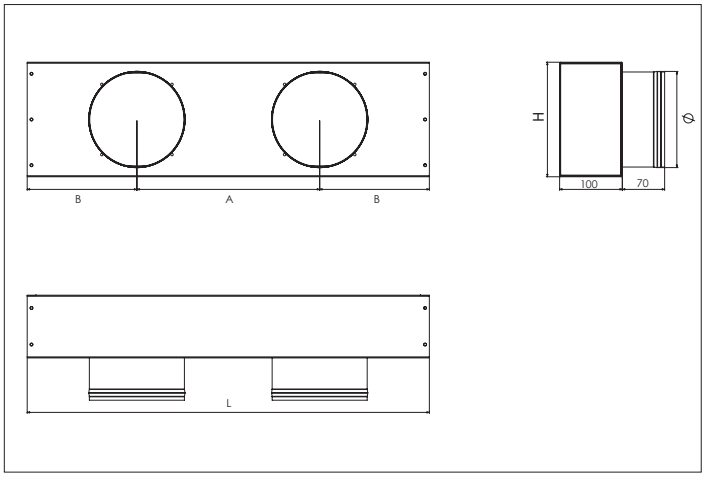
For VERTICAL version

ACCESSORIES

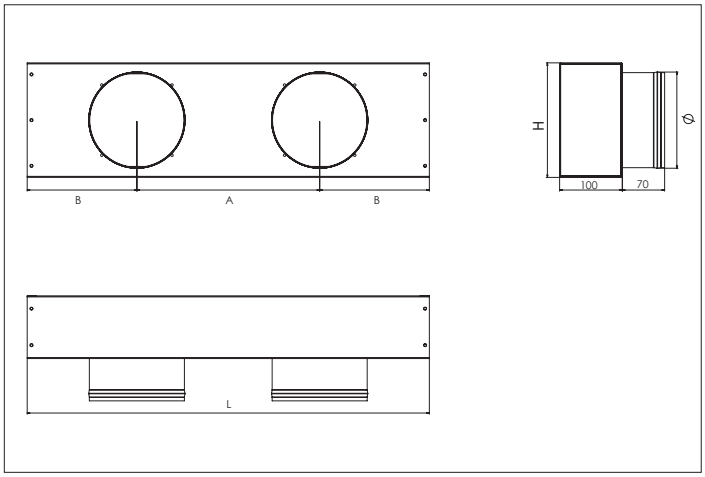
SUPPLY/INTAKE PLENUM WITH SPIGOTS

The plenum made of painted galvanised steel sheet with circular fitting is used to convey the air in case of either vertical or horizontal built-in installation of the fan coil unit. To extract the air filter the motor cover equipped with a bayonet panel shall be mounted.

SUPPLY		L	A	B	Spigots		H
MOD.	CODE	mm	mm	mm	n°	Ø	mm
10	A0055500430	360	-	180	1	160	190
20	A0055500431	510	240	135	2	160	190
30	A0055500432	660	300	180	2	160	190
40	A0055500433	810	240	165	3	160	190
50	A0055500434	960	230	135	4	160	190
60	A0055500435	1110	260	165	4	160	190
70	A0055500436	1260	295	187.5	4	200	215
80	A0055500437	1260	295	187.5	4	200	215
90	A0055500438	1410	300	210	4	200	215
100	A0055500439	1560	300	180	5	200	215



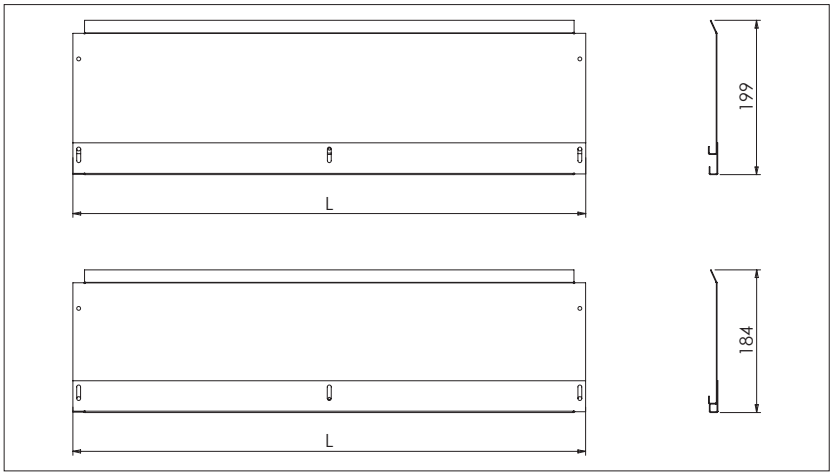
INTAKE		L	A	B	Spigots		H
MOD.	CODE	mm	mm	mm	n°	Ø	mm
10	A0055500440	360	-	180	1	160	190
20	A0055500441	510	240	135	2	160	190
30	A0055500442	660	300	180	2	160	190
40	A0055500443	810	240	165	3	160	190
50	A0055500444	960	230	135	4	160	190
60	A0055500445	1110	260	165	4	160	190
70	A0055500446	1260	295	187.5	4	200	215
80	A0055500447	1260	295	187.5	4	200	215
90	A0055500448	1410	300	210	4	200	215
100	A0055500449	1560	300	180	5	200	215



FAN MOTOR-COVER STEEL PANEL FOR BOTTOM AIR FILTER EXTRACTION

The bayonet motor cover is made of two panels which slide one on the other enabling to easily extract the filter.
This is necessary when a intake accessory is mounted (e.g. 90° fitting, straight plenum, vibration-damping joint).

		L
MOD.	CODE	mm
10	A0055510450	360
20	A0055510451	510
30	A0055510452	660
40	A0055510453	810
50	A0055510454	960
60	A0055510455	1110
70	A0055510456	1260
80	A0055510457	1260
90	A0055510458	1410
100	A0055510459	1560

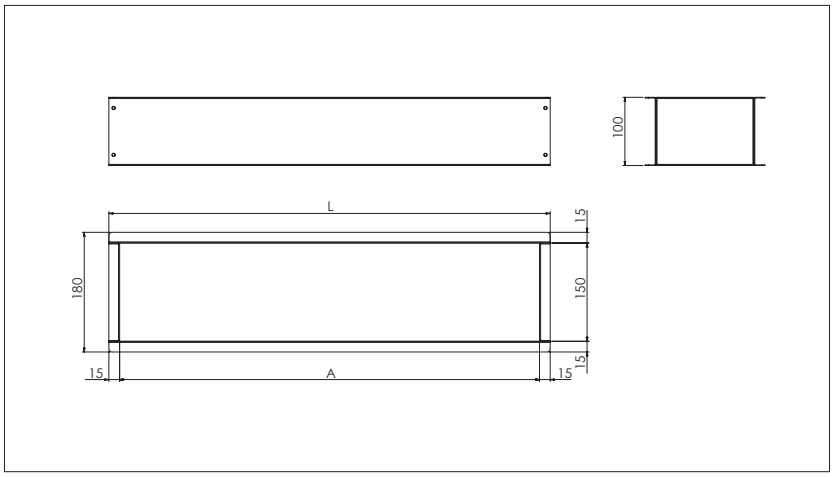


ACCESSORIES

STRAIGHT SUPPLY PLENUM (INSULATED)

In galvanised steel sheet, it is used to convey the air in case of either vertical or horizontal built-in installation of the fan coil unit.

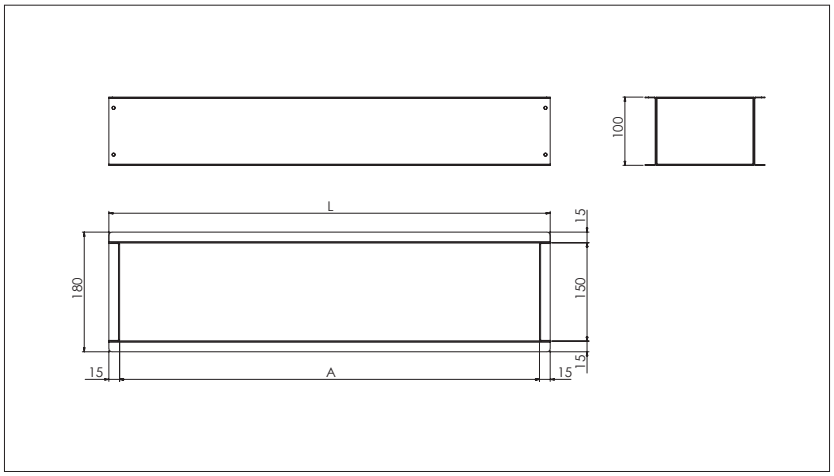
		L	A
MOD.	CODE	mm	mm
10	A0055500390	360	330
20	A0055500391	510	480
30	A0055500392	660	630
40	A0055500393	810	780
50	A0055500394	960	930
60	A0055500395	1110	1080
70	A0055500396	1260	1230
80	A0055500397	1260	1230
90	A0055500398	1410	1380
100	A0055500399	1560	1530



STRAIGHT INTAKE PLENUM

In galvanised steel sheet, it is used to convey the air in case of either vertical or horizontal built-in installation of the fan coil unit.

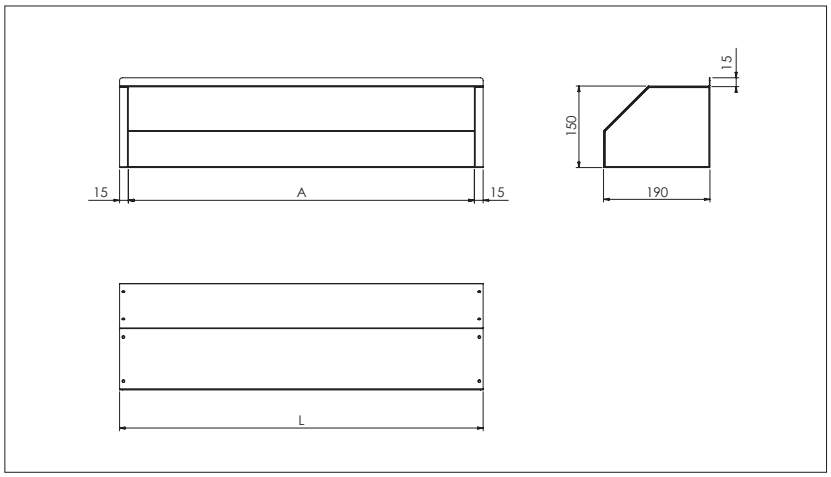
		L	A
MOD.	CODE	mm	mm
10	A0055500400	360	330
20	A0055500401	510	480
30	A0055500402	660	630
40	A0055500403	810	780
50	A0055500404	960	930
60	A0055500405	1110	1080
70	A0055500406	1260	1230
80	A0055500407	1260	1230
90	A0055500408	1410	1380
100	A0055500409	1560	1530



90° AIR SUPPLY PLENUM (INSULATED)

In galvanised steel sheet, it is used to convey the air in case of either vertical or horizontal built-in installation of the fan coil unit.

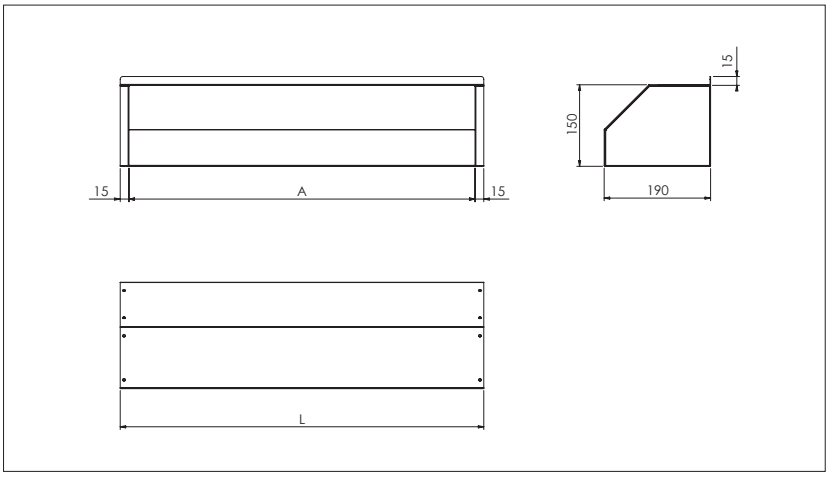
		L	A
MOD.	CODE	mm	mm
10	A0055500370	360	330
20	A0055500371	510	480
30	A0055500372	660	630
40	A0055500373	810	780
50	A0055500374	960	930
60	A0055500375	1110	1080
70	A0055500376	1260	1230
80	A0055500377	1260	1230
90	A0055500378	1410	1380
100	A0055500379	1560	1530



ACCESSORIES

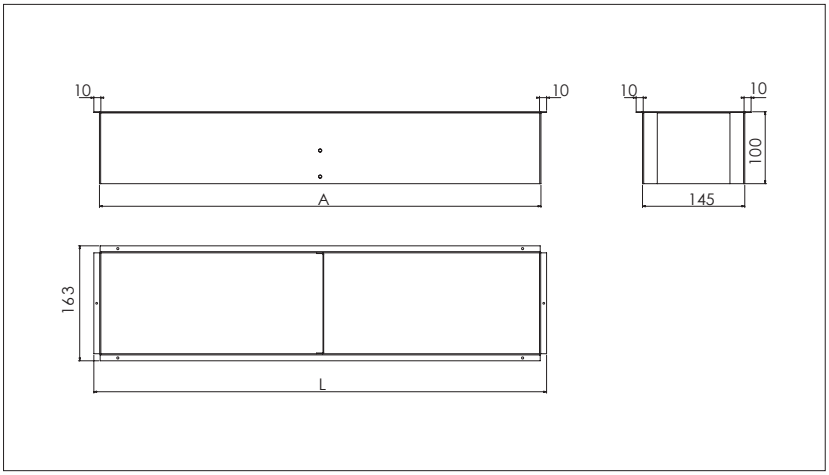
90° AIR INTAKE PLENUM

		L	A
MOD.	CODE	mm	mm
10	A0055500380	360	330
20	A0055500381	510	480
30	A0055500382	660	630
40	A0055500383	810	780
50	A0055500384	960	930
60	A0055500385	1110	1080
70	A0055500386	1260	1230
80	A0055500387	1260	1230
90	A0055500388	1410	1380
100	A0055500389	1560	1530



TELESCOPIC EXTENSION FOR 90° AND STRAIGHT PLENUMS

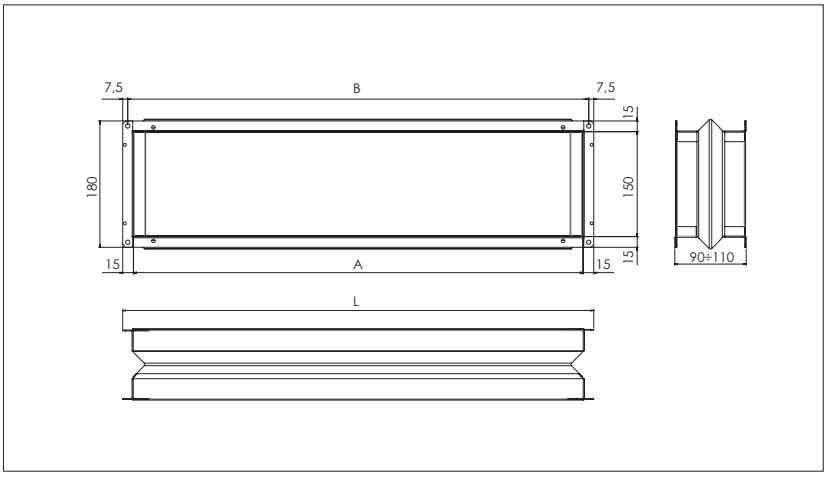
		L	A
MOD.	CODE	mm	mm
10	A0055500410	342	325
20	A0055500411	492	475
30	A0055500412	642	625
40	A0055500413	792	775
50	A0055500414	942	925
60	A0055500415	1092	1075
70	A0055500416	1242	1225
80	A0055500417	1242	1225
90	A0055500418	1392	1375
100	A0055500419	1542	1525



ANTIVIBRATING JOINT

It is made of galvanised steel sheet with a two-ply silicone fabric suitable for hot temperature, for fan coil unit and straight as well as 90° joint, to reduce noise.

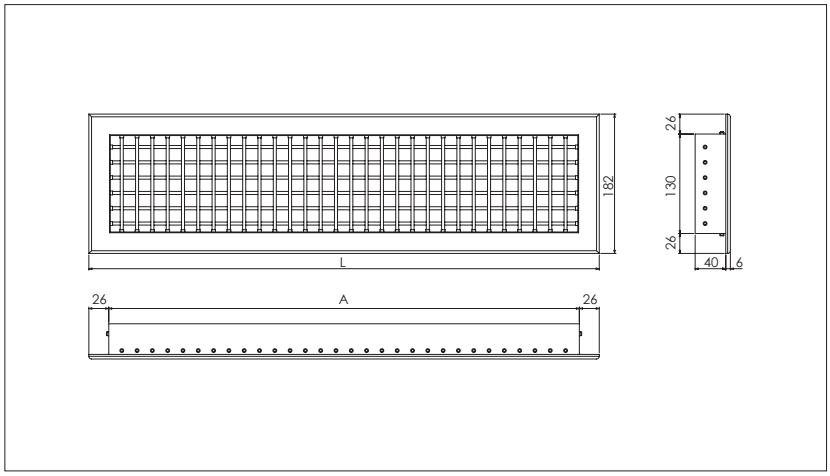
		L	A	B
MOD.	CODE	mm	mm	mm
10	A0055500420	360	330	345
20	A0055500421	510	480	495
30	A0055500422	660	630	645
40	A0055500423	810	780	795
50	A0055500424	960	930	945
60	A0055500425	1110	1080	1095
70	A0055500426	1260	1230	1245
80	A0055500427	1260	1230	1245
90	A0055500428	1410	1380	1395
100	A0055500429	1560	1530	1545



ACCESSORIES

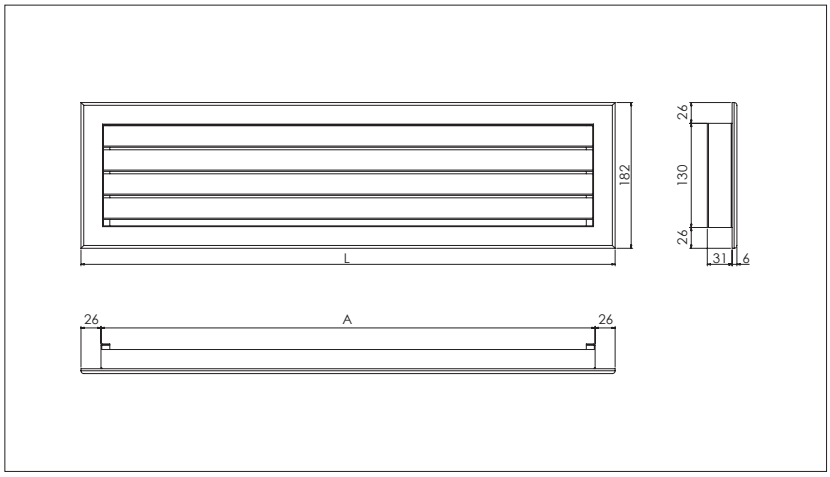
ALUMINIUM ADJUSTABLE SUPPLY GRILL (without air filter)

		L	A
MOD.	CODE	mm	mm
10	A0055520230	362	310
20	A0055520231	512	460
30	A0055520232	662	610
40	A0055520233	812	760
50	A0055520234	962	910
60	A0055520235	1112	1060
70	A0055520236	1262	1210
80	A0055520237	1262	1210
90	A0055520238	1412	1360
100	A0055520239	1562	1510



ALUMINIUM FIXED INTAKE GRILL (with air filter)

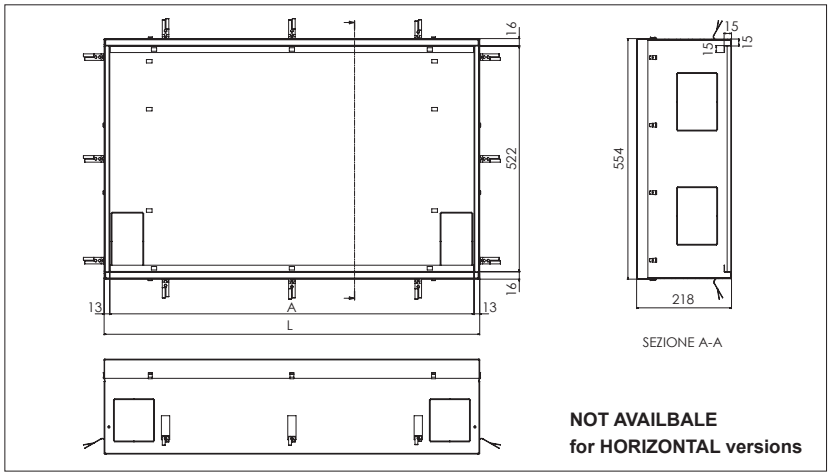
		L	A
MOD.	CODE	mm	mm
10	A0055520240	367	315
20	A0055520241	517	465
30	A0055520242	667	615
40	A0055520243	817	765
50	A0055520244	967	915
60	A0055520245	1117	1065
70	A0055520246	1267	1215
80	A0055520247	1267	1215
90	A0055520248	1417	1365
100	A0055520249	1567	1515



STEEL BOX

In galvanised steel sheet, it is used to make the fan coil unit built-in installation I (frontal air throw version) easier.

		L	A
MOD.	CODE	mm	mm
10	A0055530040	617	591
20	A0055530041	817	791
30	A0055530042	917	891
40	A0055530043	1117	1091
50	A0055530044	1217	1191
60	A0055530045	1417	1391
70	A0055530046	1517	1491
80	A0055530047	1517	1491



ACCESSORIES

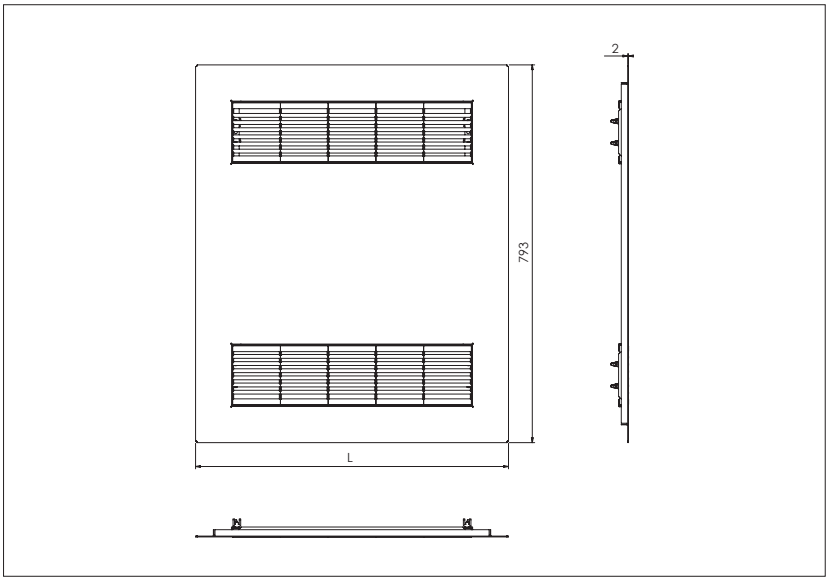
WHITE PRE-PAINTED STEEL PANEL

The built-in fan coil units both wall and ceiling mounted shall be covered for style and safety reasons. The sheet panel (20-mm thick) enables to conceal the fan coil unit by completely closing the recess in which it is placed. The panel is made of white prepainted sheet. It is mounted directly onto the fan coil unit by hidden self-tapping screws.

The air outflow (with filter) and intake grilles are inserted into the panel. By rotating the air outflow grille, the air throw may be directed upwards or downwards. Two kinds of panels are available for each fan coil unit measure: IF version (fan coil unit with frontal throw) and I version (fan coil unit with vertical or horizontal throw, equipped with 90° fitting).

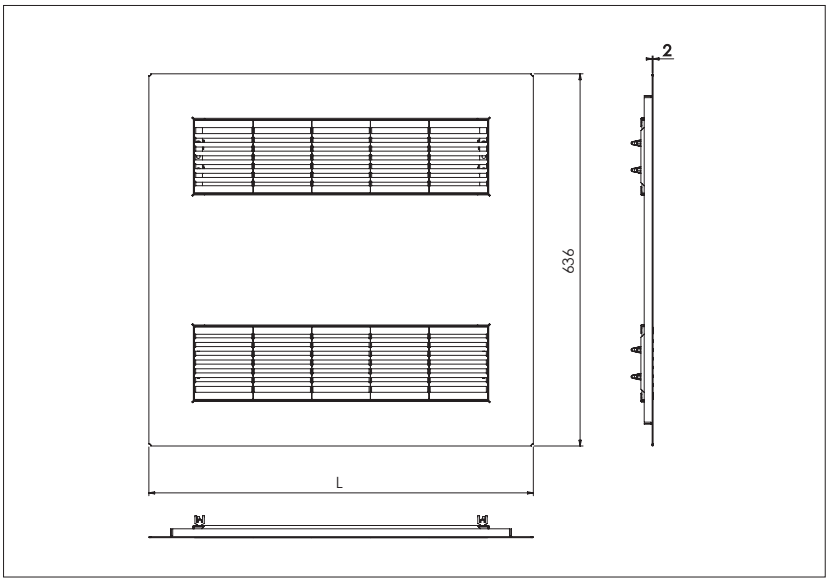
AIR version I

		L	Grills
MOD.	CODE	mm	n°
10	A0055510380	657	5
20	A0055510381	857	7
30	A0055510382	957	8
40	A0055510383	1157	10
50	A0055510384	1257	11
60	A0055510385	1457	13
70	A0055510386	1557	14
80	A0055510387	1557	14



AIR version IF

		L	Grills
MOD.	CODE	mm	n°
10	A0055510370	657	5
20	A0055510371	857	7
30	A0055510372	957	8
40	A0055510373	1157	10
50	A0055510374	1257	11
60	A0055510375	1457	13
70	A0055510376	1557	14
80	A0055510377	1557	14



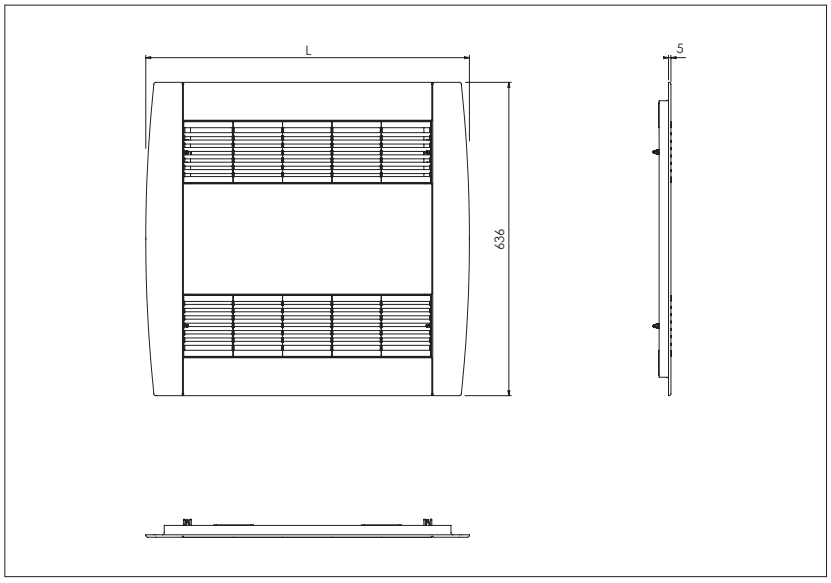
ACCESSORIES

WHITE LACQUERED WOODEN PANEL

It is a stylish white lacquered wood panel (20-mm thick) specifically designed for design-oriented places. The wood panel enables to conceal the fan coil unit by completely closing the recess in which it is placed.
It is mounted directly onto the fan coil unit by hidden self-tapping screws. The air outflow (with filter) and intake grilles are inserted into the panel. By rotating the air outflow grille, the air throw may be directed upwards or downwards.

AIR version IF

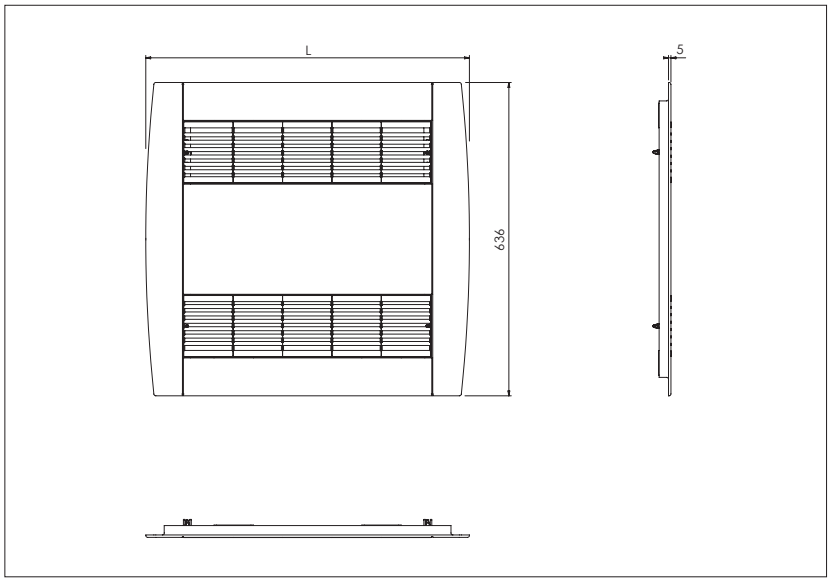
		L	Grills
MOD.	CODE	mm	n°
10	A0055510390	657	5
20	A0055510391	857	7
30	A0055510392	957	8
40	A0055510393	1157	10
50	A0055510394	1257	11
60	A0055510395	1457	13
70	A0055510396	1557	14
80	A0055510397	1557	14



NOT PAINTED WOODEN PANEL

AIR version IF

		L	Grills
MOD.	CODE	mm	n°
10	A0055510430	657	5
20	A0055510431	857	7
30	A0055510432	957	8
40	A0055510433	1157	10
50	A0055510434	1257	11
60	A0055510435	1457	13
70	A0055510436	1557	14
80	A0055510437	1557	14

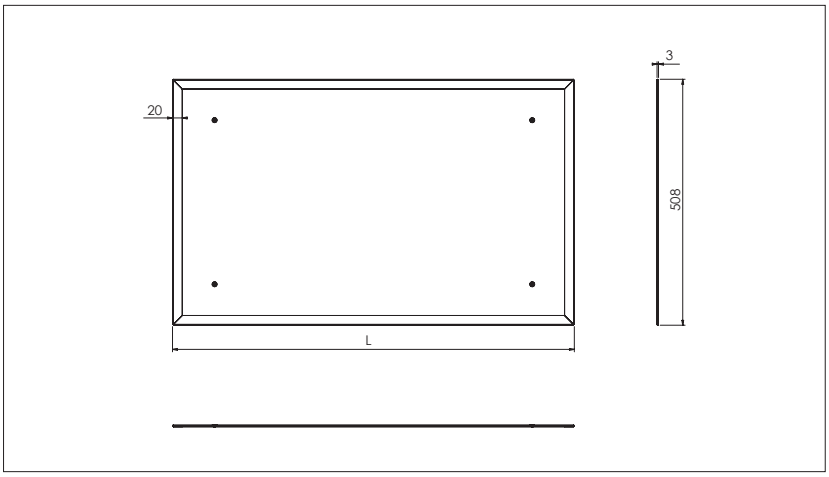


ACCESSORIES

PAINTED BACK PANEL (FOR STANDARD CABINET)

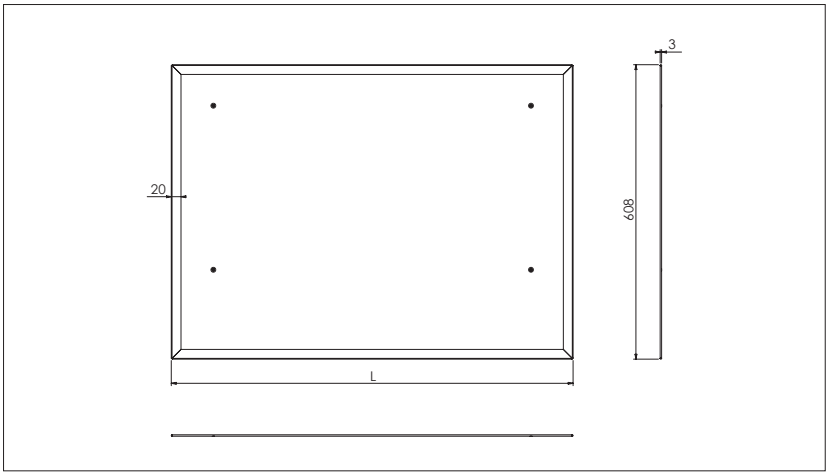
In painted sheet, it enables to close the rear part of the fan coil unit should it be exposed.

		L
MOD.	CODE	mm
10	A0055510330	530
20	A0055510331	680
30	A0055510332	830
40	A0055510333	980
50	A0055510334	1130
60	A0055510335	1280
70	A0055510336	1430
80	A0055510337	1430
90	A0055510338	1580
100	A0055510339	1730



PAINTED BACK PANEL (FOR CABINET WITH SOCLE)

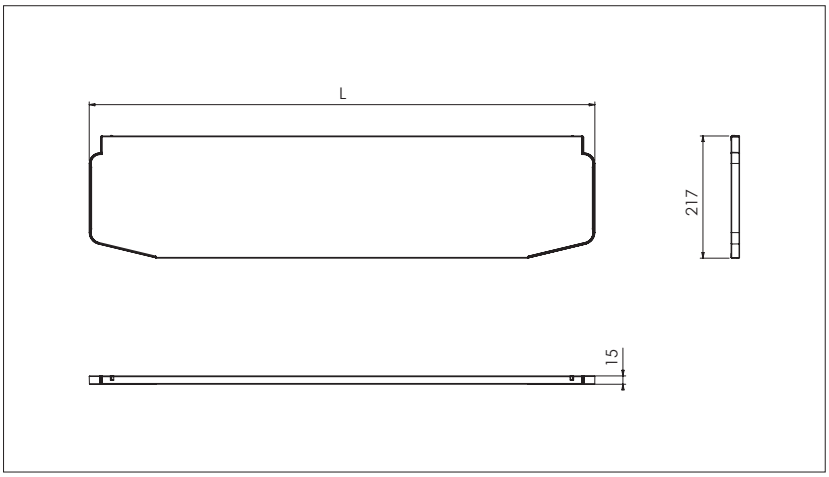
		L
MOD.	CODE	mm
10	A0055510340	530
20	A0055510341	680
30	A0055510342	830
40	A0055510343	980
50	A0055510344	1130
60	A0055510345	1280
70	A0055510346	1430
80	A0055510347	1430
90	A0055510348	1580
100	A0055510349	1730



PAINTED LOWER PANEL WITHOUT GRILL

In painted sheet, it enables to close the lower part of the fan coil unit should it be exposed.

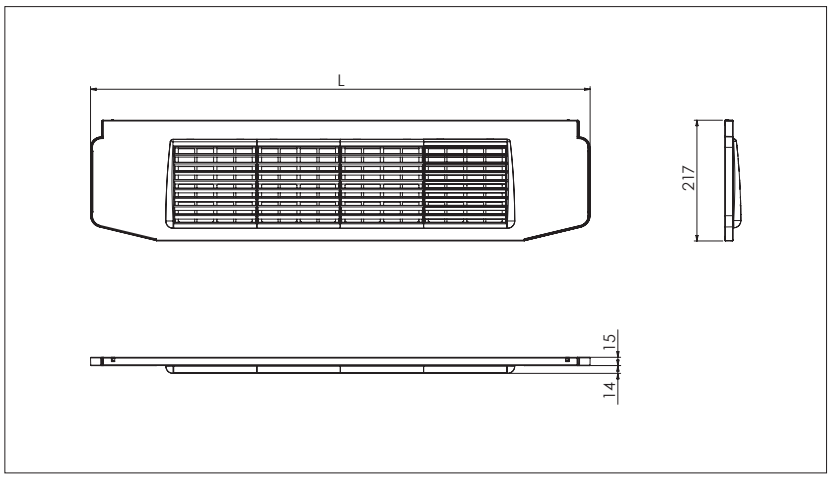
		L
MOD.	CODE	mm
10	A0055510350	595
20	A0055510351	745
30	A0055510352	895
40	A0055510353	1045
50	A0055510354	1195
60	A0055510355	1345
70	A0055510356	1495
80	A0055510357	1495
90	A0055510358	1645
100	A0055510359	1795



ACCESSORIES

PAINTED LOWER PANEL WITH GRILL AND AIR FILTER

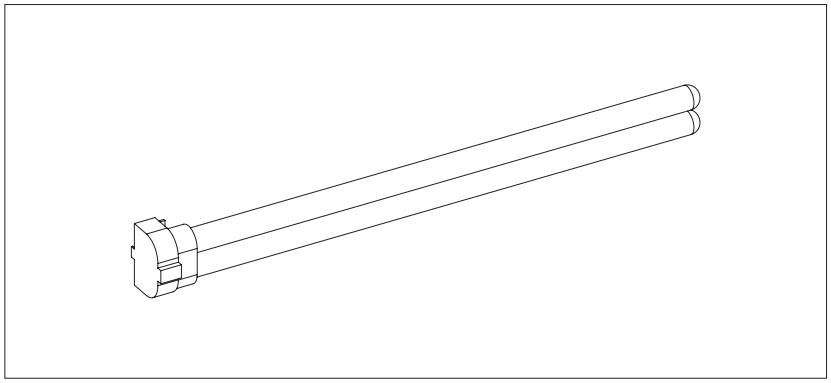
		L	Grills
MOD.	CODE	mm	n°
10	A0055510360	595	2
20	A0055510361	745	3
30	A0055510362	895	4
40	A0055510363	1045	5
50	A0055510364	1195	6
60	A0055510365	1245	7
70	A0055510366	1495	8
80	A0055510367	1495	8
90	A0055510368	1645	9
100	A0055510369	1795	10



GERMICIDAL LAMP

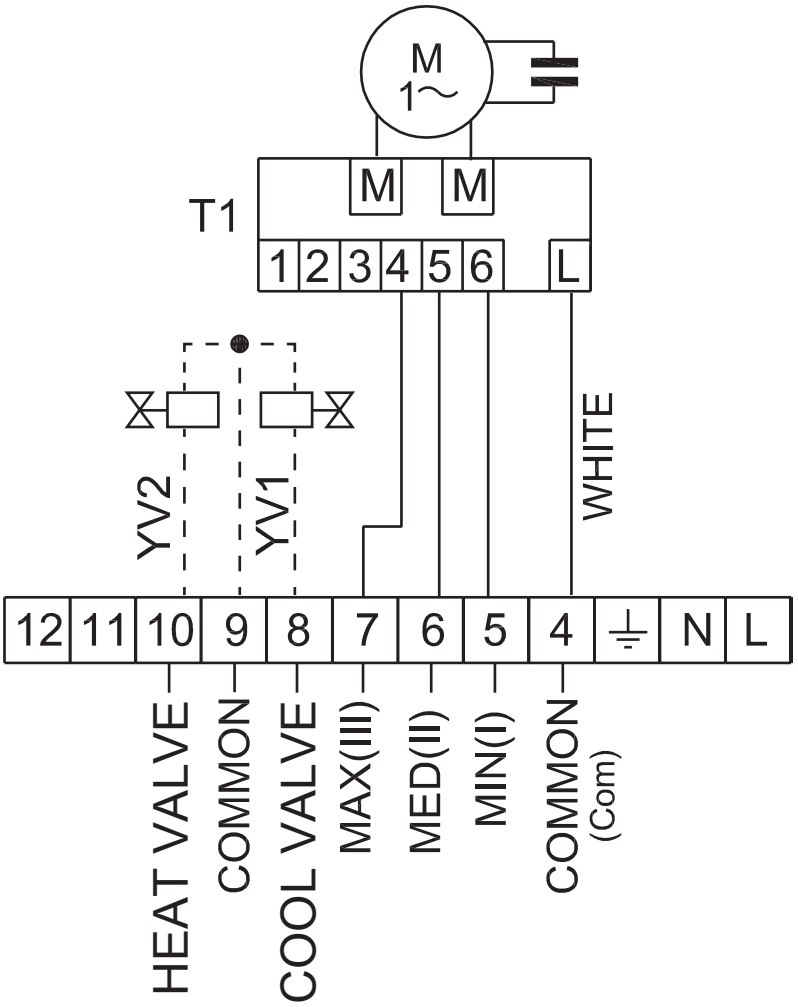
Ultraviolet ray lamp which enables to prevent bacteria (e.g. legionella) to grow inside the drain pan of the unit.

		Power supply
MOD.	CODE	W
20	A0055670022	
30	A0055670023	
40	A0055670024	
50	A0055670025	
60	A0055670026	230 V / 36 W
70	A0055670027	
80	A0055670028	
90	A0055670029	
100	A0055670030	



ELECTRICAL WIRINGS

TERMINAL BOARD WITH 3 SPEEDS FAN AND 2 VALVES



M = MOTOR 230Vac-50Hz

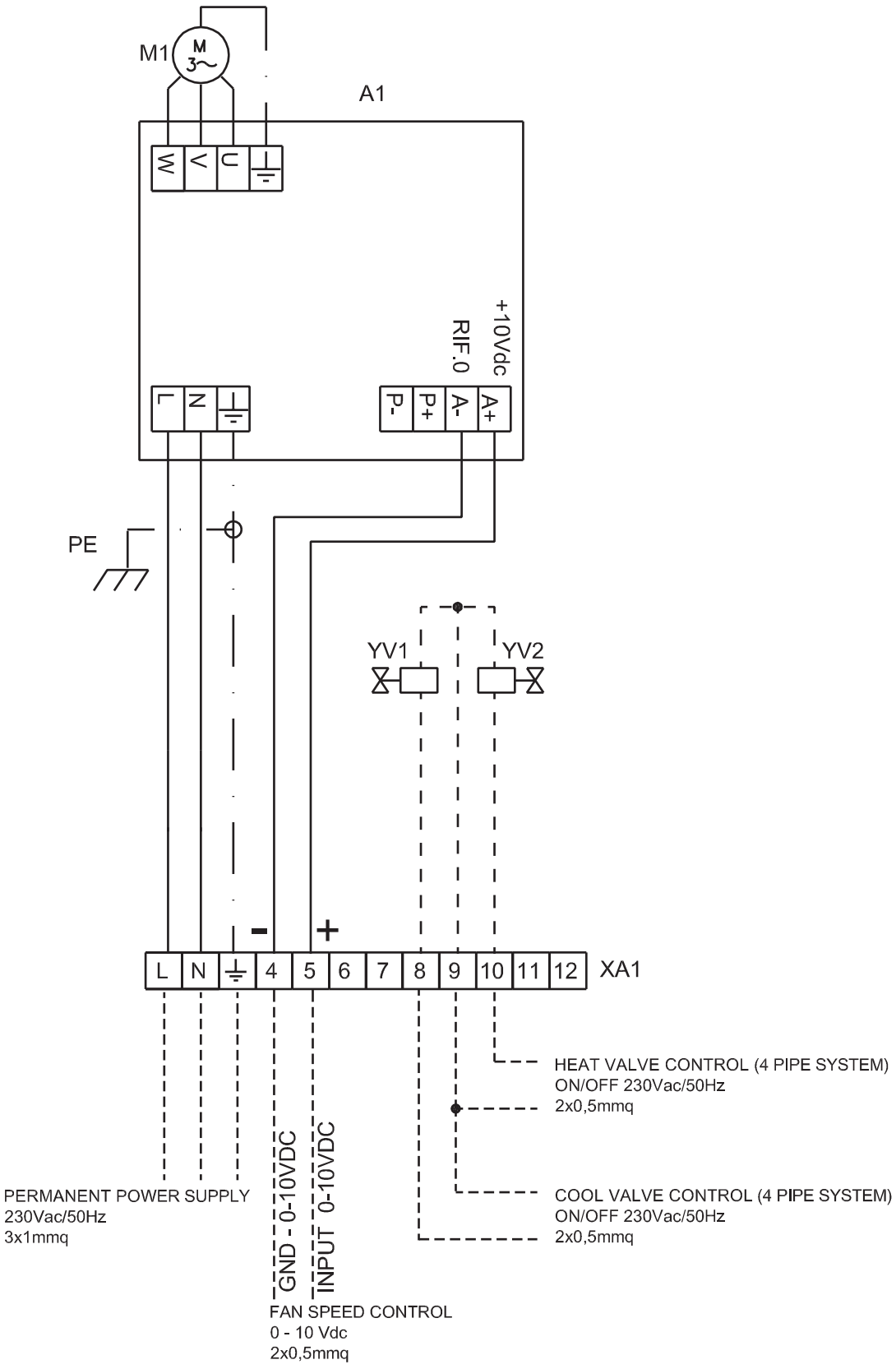
YV1+YV2 = VALVES 4 PIPE ON/OFF 230Vac
YV1=COOL / YV2=HEAT

BKV-02

2019-1

ELECTRICAL WIRINGS

TERMINAL BOARD WITH ECM FAN AND 2 OPTIONAL VALVES



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NOTE - *NOTES*

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