FRESH

Ductable air treatment unit

Rel. 02

Technical Manual


EUROVENT
CERTIFIED
PERFORMANCE
www.eurovent-certification.com

ITA
ENG
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

UNITÀ TRATTAMENTO ARIA CANALIZZABILE / DUCTABLE AIR TREATMENT UNIT / KANALISIERBARE LUFTAUFBEREITUNGSGERÄTE / UNITÉ DE TRAITMENT DE L'AIR CANALISABLE / UNIDAD DE TRATAMIENTO DEL AIRE CANALIZADA / КАНАЛЬНЫЙ ФАНКОЙЛ

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

FRESH (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 Electromagnétique 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 quelité 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.

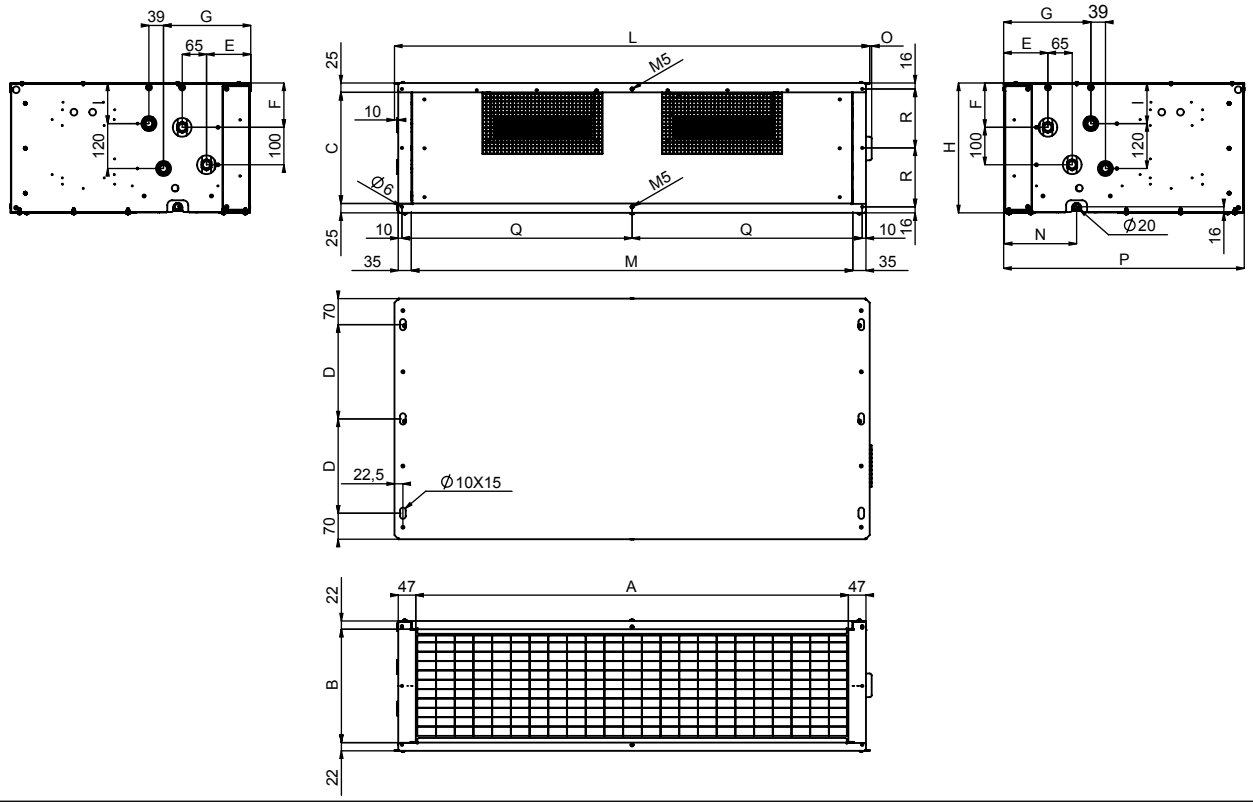
Data e luogo di emissione: Date and place of issue: Ausstellungsort und Datum: Date et lieu d'émission: Fecha y lugar de emisión: Дата и место составления:	**01-2017** **San Zenone degli Ezzelini (TV)**	Nome e firma di persona autorizzata: Name e signature of authorised person: Name und Unterschrift 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)***

TECHNICAL DATA

GENERAL DIMENSIONS FOR HORIZONTAL UNIT (SINGLE SKIN)

RIGHT VIEW
OPTIONAL CONNCECTIONS

LEFT VIEW
STANDARD CONNCECTIONS



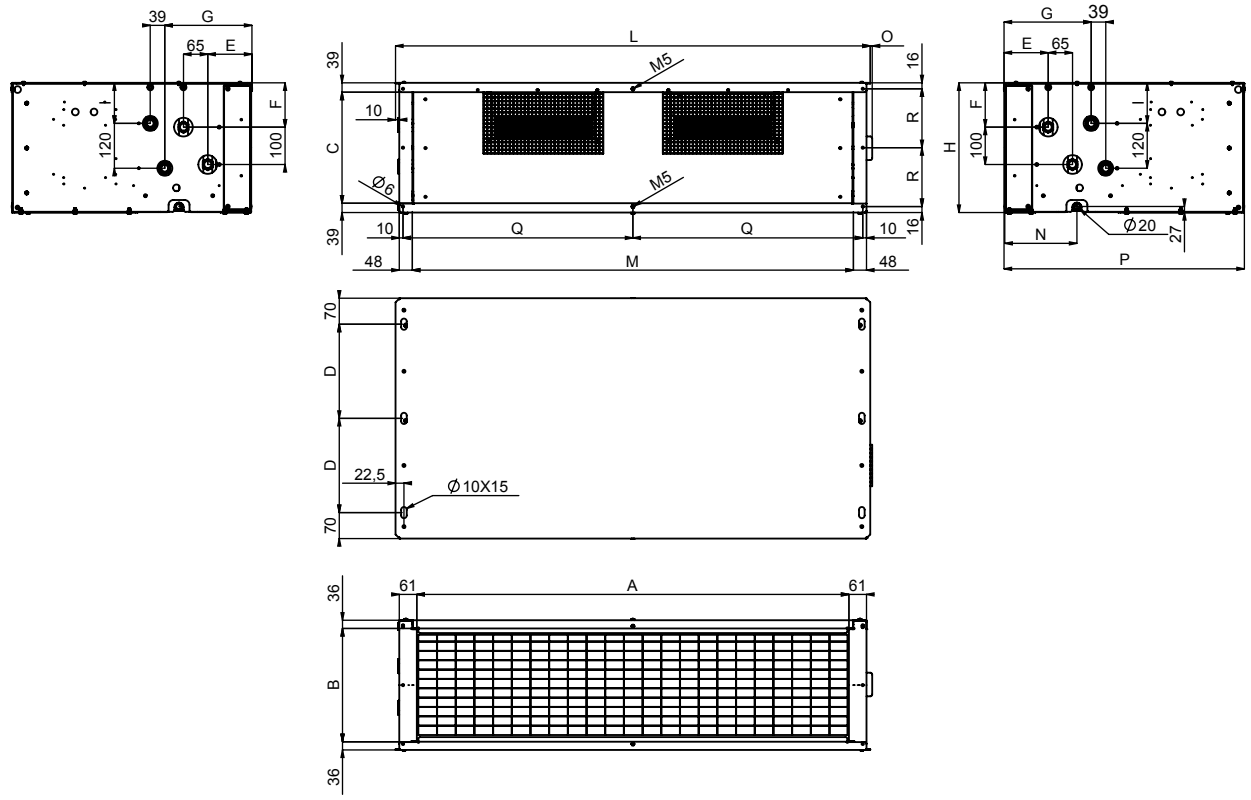
			HORIZONTAL UNIT MOD.						
			1	2	3	4	5	6	7
L		mm	770	1070	1270	1420	1520	2190	2190
H		mm	297	297	347	372	397	373	398
P		mm	643	643	643	770	770	770	770
A		mm	656	956	1156	1306	1406	2076	2076
B		mm	253	253	303	328	353	328	353
M		mm	680	980	1180	1330	1430	2100	2100
C		mm	247	247	297	322	347	323	348
D		mm	252	252	252	315,5	315,5	315,5	315,5
E		mm	118	118	118	195	195	201,5	201,5
F		mm	93,5	93,5	118,5	131	143,5	131,5	144
G		mm	233	233	233	310	310	311	311
I		mm	83,5	83,5	108,5	121	133,5	121,5	134
N		mm	193	193	193	270	270	270	270
O		mm	5	5	5	38	38	38	38
Q		mm	365	515	615	690	740	717	717
R		mm	132,5	132,5	157,5	170,0	182,5	170,0	182,5
FANS		no.	1	2	2	2	2	4	4
Collectors (male)	2R coil	Ø	1/2”	1/2”	3/4”	3/4”	1”	1”	1”
	4R coil	Ø	1/2”	3/4”	3/4”	1”	1”	1” 1/4	1” 1/2
	6R coil	Ø	3/4”	3/4”	1”	1”	1” 1/4	1” 1/2	1” 1/2
Net weight		kg	29,0	40,0	51,0	65,0	76,0	133,0	141,0

TECHNICAL DATA

GENERAL DIMENSIONS FOR HORIZONTAL UNIT (DOUBLE SKIN)

RIGHT VIEW
OPTIONAL CONNCECTIONS

LEFT VIEW
STANDARD CONNCECTIONS



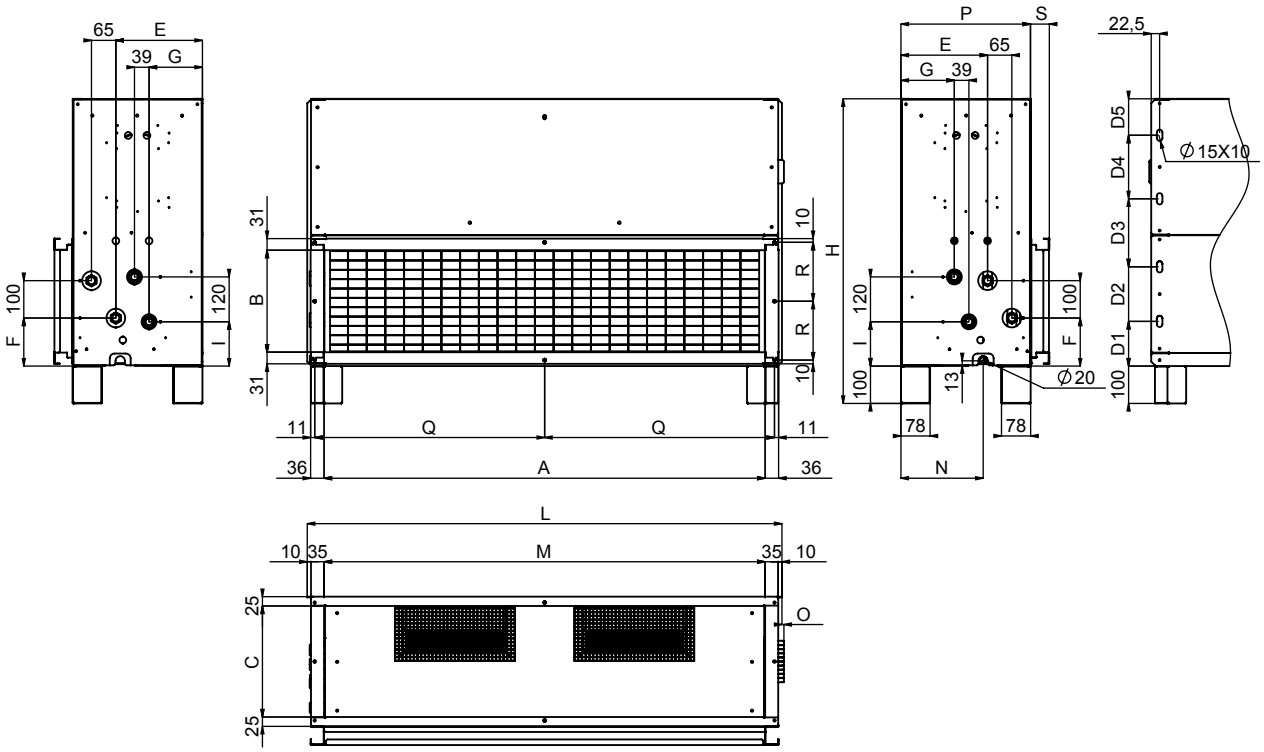
			DOUBLE SKIN HORIZONTAL UNIT MOD.						
			1	2	3	4	5	6	7
L		mm	793	1093	1293	1443	1543	2213	2213
H		mm	325	325	375	400	425	400	425
P		mm	643	643	643	770	770	770	770
A		mm	651	951	1151	1300	1400	2071	2071
B		mm	253	253	303	328	353	328	353
M		mm	680	980	1180	1330	1430	2100	2100
C		mm	247	247	297	322	347	323	348
D		mm	252	252	252	315,5	315,5	315,5	315,5
E		mm	118	118	118	195	195	201,5	201,5
F		mm	107,5	107,5	132,0	145	157,5	145,5	158
G		mm	233	233	233	310	310	311	311
I		mm	97,5	97,5	122,5	135	147,5	135,5	148
N		mm	193	193	193	270	270	270	270
O		mm	5	5	5	38	38	38	38
Q		mm	378,5	478,5	628,5	703,5	753,5	725	725
R		mm	142,5	142,5	167,5	180	192,5	180	192,5
FANS		no.	1	2	2	2	2	4	4
Collectors (male)	2R coil	Ø	1/2”	1/2”	3/4”	3/4”	1”	1”	1”
	4R coil	Ø	1/2”	3/4”	3/4”	1”	1”	1” 1/4	1” 1/2
	6R coil	Ø	3/4”	3/4”	1”	1”	1” 1/4	1” 1/2	1” 1/2
Net weight		kg	43,0	59,0	71,0	92,0	101,0	167,0	175,0

TECHNICAL DATA

GENERAL DIMENSIONS FOR VERTICAL UNIT (SINGLE SKIN)

RIGHT VIEW
OPTIONAL CONNCECTIONS

LEFT VIEW
STANDARD CONNCECTIONS



			VERTICALE UNIT MOD.						
			1	2	3	4	5	6	7
L		mm	770	1070	1270	1420	1520	2190	2190
H		mm	740	740	815	890	915	891	916
P		mm	297	297	347	372	397	409	434
A		mm	680	980	1180	1330	1430	2100	2100
B		mm	223	223	273	298	323	298	323
M		mm	680	980	1180	1330	1430	2100	2100
C		mm	247	247	297	322	347	323	348
D1		mm	107	107	119,5	125	132	127	133
D2		mm	121	121	146	158,5	171	157,5	170
D3		mm	163	163	182	200	207	208	215
D4		mm	158	158	170	195	195	180	180
D5		mm	91	91	97,5	110	110	118	118
E		mm	182	182	232	257	282	252	277
F		mm	103,5	103,5	128,5	141	153,5	142	154,5
G		mm	93	93	143	168	193	168	193
I		mm	93,5	93,5	118,5	131	143,5	132	145
N		mm	170	170	220	245	270	246	271
O		mm	5	5	5	38	38	38	38
Q		mm	365	515	615	690	740	717	717
R		mm	132,5	132,5	157,5	170	182,5	170	182,5
S	FILTER 12mm	mm	50	50	50	50	50	/	/
S	FILTER 25mm	mm	73	73	73	73	73	/	/
S	FILTER 48mm	mm	86	86	86	86	86	86	86
FANS		no.	1	2	2	2	2	4	4
Collectors (male)	2R coil	Ø	1/2"	1/2"	3/4"	3/4"	1"	1"	1"
	4R coil	Ø	1/2"	3/4"	3/4"	1"	1"	1" 1/4	1" 1/2
	6R coil	Ø	3/4"	3/4"	1"	1"	1" 1/4	1" 1/2	1" 1/2
Net weight		kg	34,0	48,0	62,0	71,0	78,0	138,0	147,0

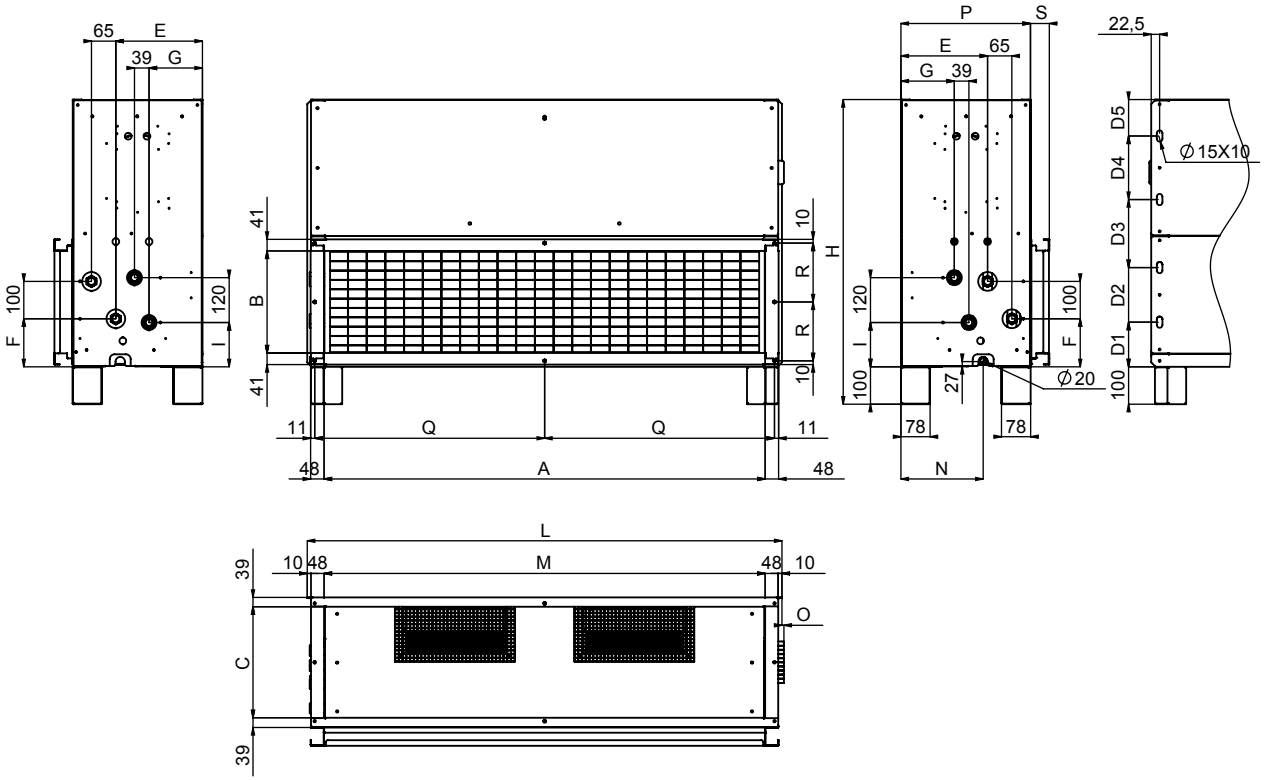
07_04_01_02

TECHNICAL DATA

GENERAL DIMENSIONS FOR VERTICAL UNIT (DOUBLE SKIN)

RIGHT VIEW
OPTIONAL CONNCECTIONS

LEFT VIEW
STANDARD CONNCECTIONS



			DOUBLE SKIN VERTICAL UNIT MOD.						
			1	2	3	4	5	6	7
L		mm	793	1093	1293	1443	1543	2213	2213
H		mm	754	754	829	904	929	905	930
P		mm	325	325	375	400	425	437	465
A		mm	680	980	1180	1330	1430	2100	2100
B		mm	223	223	273	298	323	298	323
M		mm	680	980	1180	1330	1430	2100	2100
C		mm	247	247	297	322	347	323	348
D1		mm	117	117	126,5	136	139	137	140
D2		mm	136	136	155	173,0	179,5	172	179
D3		mm	158	158	177	196,0	202,0	170	202
D4		mm	136	136	155	173,0	179,5	172	179
D5		mm	107	107	116,5	126,0	129,0	127	130
E		mm	190	190	241	257	291	261	286
F		mm	117,5	117,5	142,5	141	167,5	155	168,0
G		mm	102	102	151	168	202	177	202
I		mm	107,5	107,5	132,5	131	157,5	145	158
N		mm	179	179	229	254	279	255	280
O		mm	5	5	5	38	38	38	38
Q		mm	378,5	478,5	628,5	703,5	753,5	725	725
R		mm	142,5	142,5	167,5	180	192,5	180	192,5
S	FILTER 12mm	mm	50	50	50	50	50	/	/
S	FILTER 25mm	mm	73	73	73	73	73	/	/
S	FILTER 48mm	mm	86	86	86	86	86	86	86
FANS		no.	1	2	2	2	2	4	4
Collectors (male)	2R coil	Ø	1/2"	1/2"	3/4"	3/4"	1"	1"	1"
	4R coil	Ø	1/2"	3/4"	3/4"	1"	1"	1" 1/4	1" 1/2
	6R coil	Ø	3/4"	3/4"	1"	1"	1" 1/4	1" 1/2	1" 1/2
Net weight		kg	50,0	68,0	86,0	101,0	110,0	183,0	193,0

TECHNICAL DATA

GENERAL TECHNICAL DATA (2 pipe system - 4R coil)

Impianto a 2 tubi (batteria 4R) *2 pipe system (4R coil)*					1	2	3	4	5	6 (*)	7 (*)
RAFFREDDAMENTO - *COOLING* Temp. acqua ingresso - *Inlet water temp.*: 7 °C Temp. acqua uscita - *Outlet water temp.*: 12 °C Temp. aria ingresso - *Inlet air temp.*: 27 °C d.b. - 19 °C w.b.	Potenza frigorifera totale *Total cooling capacity*	(E)	W	6	3058	-	-	-	-	-	-
			W	5	**2987**	6358	9708	12565	-	26062	-
			W	4	**2856**	**6058**	**9016**	12010	16014	24480	29589
			W	3	2785	**5924**	**7825**	**11274**	**15131**	22568	27851
			W	2	**2581**	**5618**	**6966**	**9140**	**13329**	17979	24818
			W	1	2433	5193	5689	**6630**	**11810**	13261	22020
	Potenza frigorifera sensibile *Sensible cooling capacity*	(E)	W	6	2312	-	-	-	-	-	-
			W	5	**2256**	4618	7048	9145	-	19562	-
			W	4	**2147**	**4388**	**6506**	8720	11784	18260	22249
			W	3	2092	**4284**	**5585**	**8144**	**11081**	16688	20801
			W	2	**1926**	**4048**	**4926**	**6490**	**9649**	13039	18308
			W	1	1819	3723	3999	**4640**	**8470**	9411	16050
	Portata acqua *Water flow*		l/h	6	545	-	-	-	-	-	-
			l/h	5	530	1122	1714	2236	-	4646	-
			l/h	4	506	1065	1590	2127	2859	4348	5298
			l/h	3	493	1041	1380	1994	2695	4003	4976
			l/h	2	457	988	1229	1614	2373	3182	4430
			l/h	1	431	914	1003	1171	2103	2344	3931
	Perdite di carico lato acqua *Water pressure drop*	(E)	kPa	6	11,4	-	-	-	-	-	-
			kPa	5	**10,8**	16,0	20,8	22,0	-	23,7	-
			kPa	4	**9,9**	**14,6**	**18,6**	20,2	22,8	21,1	32,0
			kPa	3	9,2	**14,1**	**14,5**	**18,0**	**21,0**	18,2	28,9
			kPa	2	**8,3**	**12,8**	**11,8**	**12,4**	**16,8**	12,1	22,8
			kPa	1	7,8	11,2	8,4	**7,0**	**13,6**	7,1	18,1
RISCALDAMENTO - *HEATING* Temp. aria - *Air temp.*: 20 °C Temp. acqua ingresso - *Inlet water temp.*: 45/40 °C	Potenza termica *Heating capacity*	(E)	W	6	3230	-	-	-	-	-	-
			W	5	**3140**	6950	10510	13880	-	30200	-
			W	4	**2980**	**6570**	**9630**	13140	17980	28020	34170
			W	3	2900	**6410**	**8310**	**12240**	**16840**	25540	31820
			W	2	**2700**	**6050**	**7350**	**9740**	**14640**	19840	27930
			W	1	2520	5570	5880	**6880**	**12840**	14310	24450
	Portata acqua *Water flow*		l/h	6	562	-	-	-	-	-	-
			l/h	5	547	1211	1830	2419	-	5261	-
			l/h	4	519	1144	1686	2289	3132	4881	5952
			l/h	3	506	1116	1447	2131	2934	4449	5544
			l/h	2	470	1054	1280	1696	2550	3454	4865
			l/h	1	440	970	1024	1201	2236	2492	4261
	Perdite di carico lato acqua *Water pressure drop*	(E)	kPa	6	10,1	-	-	-	-	-	-
			kPa	5	**9,9**	15,2	19,8	20,8	-	24,3	-
			kPa	4	**9,0**	**13,8**	**17,0**	18,9	22,6	21,3	32,4
			kPa	3	8,4	**13,2**	**13,1**	**17,0**	**20,2**	18,1	28,6
			kPa	2	**7,0**	**11,9**	**10,5**	**11,1**	**15,8**	11,6	22,7
			kPa	1	6,5	10,3	7,1	**6,1**	**12,5**	6,5	18,0
RISCALDAMENTO - *HEATING* Temp. aria - *Air temp.*: 20 °C Temp. acqua ingresso - *Inlet water temp.*: 50 °C	Potenza termica *Heating capacity*		W	6	3860	-	-	-	-	-	-
			W	5	3760	8280	12530	16540	-	35740	-
			W	4	3570	7830	11560	15660	21370	33210	40470
			W	3	3480	7640	9930	14600	20030	30310	37740
			W	2	3240	7220	8790	11640	17440	23620	33190
			W	1	3030	6650	7050	8260	15330	17090	29110
	Portata acqua *Water flow*		l/h	6	545	-	-	-	-	-	-
			l/h	5	530	1122	1714	2236	-	4646	-
			l/h	4	506	1065	1590	2127	2859	4348	5298
			l/h	3	493	1041	1380	1994	2695	4003	4976
			l/h	2	457	988	1229	1614	2373	3182	4430
			l/h	1	431	914	1003	1171	2103	2344	3931
	Perdite di carico lato acqua *Water pressure drop*		kPa	6	9,4	-	-	-	-	-	-
			kPa	5	9,2	13,1	17,3	17,9	-	19,3	-
			kPa	4	8,3	11,9	15,2	16,4	18,9	17,1	25,9
			kPa	3	7,9	11,5	11,8	14,6	17,1	14,8	23,2
			kPa	2	6,7	10,4	9,6	10,1	13,6	9,9	18,9
			kPa	1	6,2	9,1	6,7	5,7	11,0	5,8	15,3

- Il test per la rilevazione del livello di potenza sonora è stato eseguito in accordo con la normativa EN 16583:2015
  The sound power level test has to be performed according to EN 16583:2015 standard
- Livello di pressione sonora: considerata 8,6 dB(A) inferiore rispetto alla potenza sonora in una stanza di 90 m³ con un tempo di riverbero di 0,5 sec.
  Sound pressure level: 8,6 dB(A) lower that the sound power level for a room of 90 m³ with a reverberation time of 0,5 sec.
- Valori tensione ammissibile: ~230V / 1ph / 50-60Hz
  Supported power supply: ~230V / 1ph / 50-60Hz

velocità cablate / wired speed

(E) = Eurovent

* Unità non soggette a certificazione Eurovent per limiti di definizione. *Units not subject to Eurovent certification due to definition limits*

07_04_01_02

TECHNICAL DATA

GENERAL TECHNICAL DATA (2 pipe system - 4R coil)

Impianto a 2 tubi (batteria 4R) *2 pipe system (4R coil)*					**1**	**2**	**3**	**4**	**5**	**6 (*)**	**7 (*)**
	Portata aria *Air flow*	(E)	m³/h	6	534	-	-	-	-	-	-
			m³/h	5	**516**	1114	1693	2286	-	5429	-
			m³/h	4	**484**	**1039**	**1528**	2128	3052	4916	6232
			m³/h	3	469	**1007**	**1267**	**1946**	**2806**	4357	5668
			m³/h	2	**381**	**939**	**1092**	**1470**	**2349**	3161	4776
			m³/h	1	353	848	838	**976**	**1997**	2122	4027
	Pressione statica *Static pressure*	(E)	Pa	6	61	-	-	-	-	-	-
			Pa	5	**57**	63	90	124	-	77	-
			Pa	4	**50**	**55**	**73**	106	86	63	86
			Pa	3	46	**50**	**50**	**88**	**72**	50	72
			Pa	2	**39**	**44**	**37**	**50**	**50**	26	50
			Pa	1	33	36	22	**22**	**37**	11	37
UNITÀ ORIZZONTALE/UNITÀ VERTICALE ***HORIZONTAL UNIT/VERTICAL UNIT*** UNITÀ A SINGOLA PANNELLATURA *SINGLE SKIN UNIT*	Livello di potenza sonora aspirazione + radiata *Sound power level inlet + radiated*	(E)	dB(A)	6	63	-	-	-	-	-	-
			dB(A)	5	**62**	71	65	70	-	73	-
			dB(A)	4	**60**	**68**	**63**	68	73	72	76
			dB(A)	3	59	**67**	**59**	**64**	**70**	69	74
			dB(A)	2	56	**67**	**55**	**58**	**67**	61	70
			dB(A)	1	54	63	51	**55**	**63**	55	66
	Livello di potenza sonora mandata *Sound power level outlet*	(E)	dB(A)	6	62	-	-	-	-	-	-
			dB(A)	5	**61**	67	69	74	-	76	-
			dB(A)	4	**59**	**65**	**66**	70	75	74	78
			dB(A)	3	58	**64**	**60**	**66**	**71**	70	75
			dB(A)	2	**55**	**64**	**57**	**59**	**66**	61	69
			dB(A)	1	52	60	50	**56**	**62**	55	65
	Livello di pressione sonora aspirazione + radiata *Sound pressure level inlet + radiated*		dB(A)	6	54	-	-	-	-	-	-
			dB(A)	5	53	62	56	61	-	64	-
			dB(A)	4	51	59	54	59	64	63	67
			dB(A)	3	50	58	50	55	61	60	65
			dB(A)	2	47	58	46	49	58	52	61
			dB(A)	1	45	54	42	46	54	46	57
	Livello di pressione sonora mandata *Sound pressure level outlet*		dB(A)	6	53	-	-	-	-	-	-
			dB(A)	5	52	58	60	65	-	67	-
			dB(A)	4	50	56	57	61	66	65	69
			dB(A)	3	49	55	51	57	62	61	66
			dB(A)	2	46	55	48	50	57	52	60
			dB(A)	1	43	51	41	47	53	46	56
UNITÀ ORIZZONTALE DS/UNITÀ VERTICALE DS ***DS HORIZONTAL UNIT/DS VERTICAL UNIT*** UNITÀ A DOPPIA PANNELLATURA *DOUBLE SKIN UNIT*	Livello di potenza sonora aspirazione + radiata *Sound power level inlet + radiated*		dB(A)	6	62	-	-	-	-	-	-
			dB(A)	5	61	70	64	69	-	72	-
			dB(A)	4	59	67	62	67	72	71	75
			dB(A)	3	58	66	58	64	69	68	73
			dB(A)	2	55	66	54	57	66	60	69
			dB(A)	1	53	62	50	54	62	54	65
	Livello di potenza sonora mandata *Sound power level outlet*		dB(A)	6	61	-	-	-	-	-	-
			dB(A)	5	60	66	68	73	-	75	-
			dB(A)	4	58	64	65	69	74	73	77
			dB(A)	3	57	63	59	65	70	69	74
			dB(A)	2	54	63	56	58	65	60	68
			dB(A)	1	51	59	49	55	61	54	64
	Livello di pressione sonora aspirazione + radiata *Sound pressure level inlet + radiated*		dB(A)	6	53	-	-	-	-	-	-
			dB(A)	5	52	61	55	60	-	63	-
			dB(A)	4	50	58	53	58	63	62	66
			dB(A)	3	49	57	49	55	60	59	64
			dB(A)	2	46	57	45	48	57	51	60
			dB(A)	1	44	53	41	45	53	45	56
	Livello di pressione sonora mandata *Sound pressure level outlet*		dB(A)	6	52	-	-	-	-	-	-
			dB(A)	5	51	57	59	64	-	66	-
			dB(A)	4	49	55	56	60	65	64	68
			dB(A)	3	48	54	50	56	61	60	65
			dB(A)	2	45	54	47	49	56	51	59
			dB(A)	1	42	50	40	46	52	45	55

velocità cablate / wired speed

- Il test per la rilevazione del livello di potenza sonora è stato eseguito in accordo con la normativa EN 16583:2015
  The sound power level test has to be performed according to EN 16583:2015 standard
- Livello di pressione sonora: considerata 8,6 dB(A) inferiore rispetto alla potenza sonora in una stanza di 90 m³ con un tempo di riverbero di 0,5 sec.
  Sound pressure level: 8,6 dB(A) lower that the sound power level for a room of 90 m³ with a reverberation time of 0,5 sec.
- Valori tensione ammissibile: ~230V / 1ph / 50-60Hz
  Supported power supply: ~230V / 1ph / 50-60Hz

(E) = Eurovent

* Unità non soggette a certificazione Eurovent per limiti di definizione. *Units not subject to Eurovent certification due to definition limits*

07_04_01_02

TECHNICAL DATA

GENERAL TECHNICAL DATA (4 pipe system - 4R+2 coil)

Impianto a 4 tubi (batteria 4R+2) *4 pipe system (4R+2 coil)*					1	2	3	4	5	6 (*)	7 (*)
RAFFREDDAMENTO - *COOLING* *Temp. acqua ingresso - Inlet water temp.: 7 °C* *Temp. acqua uscita - Outlet water temp.: 12 °C* *Temp. aria ingresso - Inlet air temp.: 27 °C d.b. - 19 °C w.b.*	Potenza frigorifera totale *Total cooling capacity*	(E)	W	6	3101	-	-	-	-	-	-
			W	5	**3010**	5968	9338	11937	-	24582	-
			W	4	**2896**	**5728**	**8786**	11521	15214	23350	27349
			W	3	2837	**5634**	**7725**	**10924**	**14511**	21768	26171
			W	2	**2662**	**5408**	**6896**	**8970**	**13009**	17549	23958
			W	1	2516	5073	5639	**6550**	**11620**	12931	21520
	Potenza frigorifera sensibile *Sensible cooling capacity*	(E)	W	6	2182	-	-	-	-	-	-
			W	5	**2136**	4318	6758	8647	-	18322	-
			W	4	**2047**	**4138**	**6326**	8331	11134	17320	20369
			W	3	2002	**4064**	**5505**	**7864**	**10581**	16038	19401
			W	2	**1876**	**3888**	**4876**	**6370**	**9389**	12689	17608
			W	1	1769	3633	3959	**4590**	**8320**	9151	15650
	Portata acqua *Water flow*		l/h	6	552	-	-	-	-	-	-
			l/h	5	536	1055	1651	2129	-	4406	-
			l/h	4	513	1009	1551	2044	2721	4167	4912
			l/h	3	502	991	1363	1934	2589	3878	4687
			l/h	2	471	952	1217	1586	2318	3117	4282
			l/h	1	445	893	995	1158	2071	2294	3845
	Perdite di carico lato acqua *Water pressure drop*	(E)	kPa	6	10,2	-	-	-	-	-	-
			kPa	5	**9,9**	14,4	20,3	20,2	-	21,3	-
			kPa	4	**9,1**	**13,3**	**17,8**	18,8	21,3	20,2	28,7
			kPa	3	8,7	**12,9**	**14,2**	**17,0**	**19,5**	18,4	26,4
			kPa	2	**7,9**	**12,0**	**11,6**	**12,0**	**16,1**	12,1	22,2
			kPa	1	7,0	10,8	8,2	**6,9**	**13,2**	7,4	18,8
RISCALDAMENTO - *HEATING* *Temp. aria - Air temp.: 20 °C* *Temp. acqua ingresso - Inlet water temp.: 65/55 °C*	Potenza termica *Heating capacity*	(E)	W	6	4180	-	-	-	-	-	-
			W	5	**4080**	7910	12070	15520	-	32950	-
			W	4	**3930**	**7580**	**11380**	14930	19970	31190	35980
			W	3	3860	**7460**	**10070**	**14170**	**19040**	29080	34360
			W	2	**3660**	**7180**	**9080**	**11760**	**17130**	23600	31460
			W	1	3440	6770	7490	**8770**	**15400**	17770	28360
	Portata acqua *Water flow*		l/h	6	366	-	-	-	-	-	-
			l/h	5	358	693	1058	1361	-	2888	-
			l/h	4	345	665	997	1309	1751	2735	3155
			l/h	3	338	654	883	1242	1669	2550	3012
			l/h	2	321	630	797	1031	1502	2069	2758
			l/h	1	301	594	657	769	1351	1558	2486
	Perdite di carico lato acqua *Water pressure drop*	(E)	kPa	6	13,2	-	-	-	-	-	-
			kPa	5	**12,7**	17,9	12,7	9,2	-	36,9	-
			kPa	4	**11,9**	**16,6**	**11,4**	8,6	16,6	33,5	24,8
			kPa	3	11,5	**16,1**	**9,2**	**7,9**	**15,2**	29,6	22,8
			kPa	2	**10,5**	**15,1**	**7,7**	**5,7**	**12,7**	20,5	19,6
			kPa	1	9,4	13,6	5,5	**3,4**	**10,5**	12,4	16,3
RISCALDAMENTO - *HEATING* *Temp. aria - Air temp.: 20 °C* *Temp. acqua ingresso - Inlet water temp.: 70/60 °C*	Potenza termica *Heating capacity*		W	6	4710	-	-	-	-	-	-
			W	5	4610	8930	13640	17560	-	37220	-
			W	4	4430	8560	12860	16900	22590	35230	40690
			W	3	4350	8420	11380	16030	21520	32840	38850
			W	2	4130	8110	10260	13300	19360	26640	35570
			W	1	3880	7640	8450	9910	17410	20040	32050
	Portata acqua *Water flow*		l/h	6	414	-	-	-	-	-	-
			l/h	5	405	785	1199	1542	-	3269	-
			l/h	4	390	752	1130	1484	1984	3095	3574
			l/h	3	382	740	1000	1408	1890	2885	3413
			l/h	2	362	712	901	1169	1702	2341	3124
			l/h	1	341	671	742	870	1529	1760	2815
	Perdite di carico lato acqua *Water pressure drop*		kPa	6	16,1	-	-	-	-	-	-
			kPa	5	15,5	21,8	15,5	11,3	-	45,0	-
			kPa	4	14,5	20,3	13,9	10,6	20,3	40,8	30,3
			kPa	3	14,0	19,7	11,2	9,6	18,6	36,1	27,9
			kPa	2	12,7	18,4	9,4	6,9	15,5	25,0	23,9
			kPa	1	11,4	16,6	6,7	4,1	12,8	15,1	19,9

- Il test per la rilevazione del livello di potenza sonora è stato eseguito in accordo con la normativa EN 16583:2015
  The sound power level test has to be performed according to EN 16583:2015 standard
- Livello di pressione sonora: considerata 8,6 dB(A) inferiore rispetto alla potenza sonora in una stanza di 90 m³ con un tempo di riverbero di 0,5 sec.
  Sound pressure level: 8,6 dB(A) lower that the sound power level for a room of 90 m³ with a reverberation time of 0,5 sec.
- Valori tensione ammissibile: ~230V / 1ph / 50-60Hz
  Supported power supply: ~230V / 1ph / 50-60Hz

velocità cablate / wired speed

(E) = Eurovent

* Unità non soggette a certificazione Eurovent per limiti di definizione. *Units not subject to Eurovent certification due to definition limits*

07_04_01_02

TECHNICAL DATA

GENERAL TECHNICAL DATA (4 pipe system - 4R+2 coil)

Impianto a 4 tubi (batteria 4R+2) *4 pipe system (4R+2 coil)*					**1**	**2**	**3**	**4**	**5**	**6 (*)**	**7 (*)**
	Portata aria *Air flow*	(E)	m³/h	6	499	-	-	-	-	-	-
			m³/h	5	**484**	1025	1608	2129	-	4991	-
			m³/h	4	**459**	**966**	**1478**	2014	2844	4598	5562
			m³/h	3	447	**944**	**1245**	**1868**	**2651**	4144	5187
			m³/h	2	**369**	**894**	**1079**	**1437**	**2275**	3062	4548
			m³/h	1	344	824	829	**963**	**1956**	2059	3904
	Pressione statica *Static pressure*	(E)	Pa	6	61	-	-	-	-	-	-
			Pa	5	**57**	63	90	124	-	77	-
			Pa	4	**50**	**55**	**73**	106	86	63	86
			Pa	3	46	**50**	**50**	**82**	**72**	50	72
			Pa	2	**39**	**44**	**37**	**50**	**50**	26	50
			Pa	1	33	36	22	**22**	**37**	11	37
UNITÀ ORIZZONTALE/UNITÀ VERTICALE *HORIZONTAL UNIT/VERTICAL UNIT* UNITÀ A SINGOLA PANNELLATURA *SINGLE SKIN UNIT*	Livello di potenza sonora aspirazione + radiata *Sound power level inlet + radiated*	(E)	dB(A)	6	63	-	-	-	-	-	-
			dB(A)	5	**62**	71	65	70	-	73	-
			dB(A)	4	**60**	**68**	**63**	68	72	72	76
			dB(A)	3	59	**67**	**59**	**68**	**70**	69	74
			dB(A)	2	**56**	**67**	**55**	**62**	**67**	61	70
			dB(A)	1	54	63	51	**55**	**63**	55	66
	Livello di potenza sonora mandata *Sound power level outlet*	(E)	dB(A)	6	62	-	-	-	-	-	-
			dB(A)	5	**61**	67	69	74	-	76	-
			dB(A)	4	**59**	**65**	**66**	70	74	74	78
			dB(A)	3	58	**64**	**60**	**68**	**71**	70	75
			dB(A)	2	**55**	**64**	**54**	**62**	**66**	61	69
			dB(A)	1	52	60	50	**56**	**62**	55	65
	Livello di pressione sonora aspirazione + radiata *Sound pressure level inlet + radiated*		dB(A)	6	54	-	-	-	-	-	-
			dB(A)	5	53	62	56	61	-	64	-
			dB(A)	4	51	59	54	59	63	63	67
			dB(A)	3	50	58	50	59	61	60	65
			dB(A)	2	47	58	46	53	58	52	61
			dB(A)	1	45	54	42	46	54	46	57
	Livello di pressione sonora mandata *Sound pressure level outlet*		dB(A)	6	53	-	-	-	-	-	-
			dB(A)	5	52	58	60	65	-	67	-
			dB(A)	4	50	56	57	61	65	65	69
			dB(A)	3	49	55	51	59	62	61	66
			dB(A)	2	46	55	45	53	57	52	60
			dB(A)	1	43	51	41	47	53	46	56
UNITÀ ORIZZONTALE DS/UNITÀ VERTICALE DS *DS HORIZONTAL UNIT/DS VERTICAL UNIT* UNITÀ A DOPPIA PANNELLATURA *DOUBLE SKIN UNIT*	Livello di potenza sonora aspirazione + radiata *Sound power level inlet + radiated*		dB(A)	6	62	-	-	-	-	-	-
			dB(A)	5	61	70	64	69	-	72	-
			dB(A)	4	59	67	62	67	71	71	75
			dB(A)	3	58	66	58	65	69	68	73
			dB(A)	2	55	66	54	57	66	60	69
			dB(A)	1	53	62	50	54	62	54	65
	Livello di potenza sonora mandata *Sound power level outlet*		dB(A)	6	61	-	-	-	-	-	-
			dB(A)	5	60	66	68	73	-	75	-
			dB(A)	4	58	64	65	69	73	73	77
			dB(A)	3	57	63	59	66	70	69	74
			dB(A)	2	54	63	53	58	65	60	68
			dB(A)	1	51	59	49	55	61	54	64
	Livello di pressione sonora aspirazione + radiata *Sound pressure level inlet + radiated*		dB(A)	6	53	-	-	-	-	-	-
			dB(A)	5	52	61	55	60	-	63	-
			dB(A)	4	50	58	53	58	62	62	66
			dB(A)	3	49	57	49	56	60	59	64
			dB(A)	2	46	57	45	48	57	51	60
			dB(A)	1	44	53	41	45	53	45	56
	Livello di pressione sonora mandata *Sound pressure level outlet*		dB(A)	6	52	-	-	-	-	-	-
			dB(A)	5	51	57	59	64	-	66	-
			dB(A)	4	49	55	56	60	64	64	68
			dB(A)	3	48	54	50	57	61	60	65
			dB(A)	2	45	54	44	49	56	51	59
			dB(A)	1	42	50	40	46	52	45	55

velocità cablate / wired speed

- Il test per la rilevazione del livello di potenza sonora è stato eseguito in accordo con la normativa EN 16583:2015
  The sound power level test has to be performed according to EN 16583:2015 standard
- Livello di pressione sonora: considerata 8,6 dB(A) inferiore rispetto alla potenza sonora in una stanza di 90 m³ con un tempo di riverbero di 0,5 sec.
  Sound pressure level: 8,6 dB(A) lower that the sound power level for a room of 90 m³ with a reverberation time of 0,5 sec.
- Valori tensione ammissibile: ~230V / 1ph / 50-60Hz
  Supported power supply: ~230V / 1ph / 50-60Hz

(E) = Eurovent

* Unità non soggette a certificazione Eurovent per limiti di definizione. *Units not subject to Eurovent certification due to definition limits*

07_04_01_02

TECHNICAL DATA

GENERAL TECHNICAL DATA (Standard Motor)

MOTORE ASINCRONO *ASYNCHRONOUS MOTOR*				1	2	3	4	5	6 (*)	7 (*)
Potenza assorbita dal motore del ventilatore *Motor fan absorbed power*	(E)	W	6	108	-	-	-	-	-	-
		W	5	**94**	162	252	463	-	1018	-
		W	4	**82**	**149**	**224**	389	596	860	1191
		W	3	78	**144**	**195**	**346**	**529**	762	1059
		W	2	**73**	**138**	**174**	**270**	**461**	561	922
		W	1	71	122	141	**200**	**410**	399	820
Corrente assorbita dal motore del ventilatore *Motor fan absorbed current*		A	6	0,52	-	-	-	-	-	-
		A	5	0,45	0,78	1,22	2,24	-	4,92	-
		A	4	0,4	0,72	1,08	1,88	2,88	4,15	5,76
		A	3	0,38	0,70	0,94	1,67	2,56	3,68	5,11
		A	2	0,35	0,67	0,84	1,29	2,23	2,71	4,46
		A	1	0,34	0,58	0,68	0,95	1,98	1,93	3,96
Tensione di alimentazione *Power supply*				~230V / 1ph / 50-60Hz						

velocità cablate / wired speed

* Unità non soggette a certificazione Eurovent per limiti di definizione. *Units not subject to Eurovent certification due to definition limits*

(E) = Eurovent

GENERAL TECHNICAL DATA (ECM Motor)

MOTORE ECM *ECM MOTOR*				1	2	3	4	5	6 (*)	7 (*)
Potenza assorbita dal motore del ventilatore *Motor fan absorbed power*	(E)	W	6	75	-	-	-	-	-	
		W	5	**69**	131	207	343	-	829	-
		W	4	**58**	**109**	**156**	305	490	632	1043
		W	3	53	**99**	**95**	**240**	**379**	458	790
		W	2	**35**	**82**	**66**	**115**	**232**	203	478
		W	1	29	64	37	**45**	**158**	87	309
Corrente assorbita dal motore del ventilatore *Motor fan absorbed current*		A	6	0,65	-	-	-	-	-	-
		A	5	0,61	1,02	1,78	2,70	-	6,60	-
		A	4	0,51	0,84	1,16	1,75	2,59	3,81	5,57
		A	3	0,43	0,77	0,67	1,14	1,93	2,24	4,04
		A	2	0,26	0,66	0,48	0,56	1,05	0,93	2,16
		A	1	0,24	0,48	0,28	0,21	0,68	0,39	1,34
Tensione di controllo velocità (Vcc) *Speed control voltage (Vdc)*		V	6	7,4	-	-	-	-	-	-
		V	5	6,8	9,4	8,1	9,7	-	9,0	-
		V	4	5,9	8,2	7,1	8,2	7,3	7,5	7,5
		V	3	5,4	7,6	5,5	7,1	6,5	6,4	6,6
		V	2	3,8	6,7	4,5	4,6	5,2	4,1	5,2
		V	1	2,7	5,2	2,6	2,1	4,3	1,5	4,3
Tensione di alimentazione *Power supply*				~230V / 1ph / 50-60Hz						

velocità cablate / wired speed

* Unità non soggette a certificazione Eurovent per limiti di definizione. *Units not subject to Eurovent certification due to definition limits*

(E) = Eurovent

07_04_01_02

TECHNICAL DATA

WORKING 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

Water flow and water pressure drops limit, 4R coil

Data concern medium water temperature of 9,5°C		MODEL						
		1	2	3	4	5	6	7
Minimal water flow	l/h	175	225	275	325	375	825	1400
Minimal water pressure drop	kPa	1,3	1,1	1,0	1,0	1,0	1,0	1,0
Maximum water flow	l/h	1300	1850	2275	2700	3150	6900	11575
Maximum water pressure drop	kPa	70,8	71,9	70,0	69,9	70,1	70,4	70,3

Water flow and water pressure drops limit, 2R coil

Data concern medium water temperature of 65°C		MODEL						
		1	2	3	4	5	6	7
Minimal water flow	l/h	75	125	150	200	225	600	1025
Minimal water pressure drop	kPa	1,2	1,0	1,3	1,0	1,2	1,1	1,0
Maximum water flow	l/h	575	1050	1100	1650	1725	4900	8450
Maximum water pressure drop	kPa	68,5	69,7	70,0	69,2	696	70,7	70,2

3 way valve

Using of 2 or 3 way valves is compulsory when the unit is used for cooling to avoid condensate in the external structure (bearing structure and cabinet). As alternative install a regulating system to stop coil water entering when the fan is off.

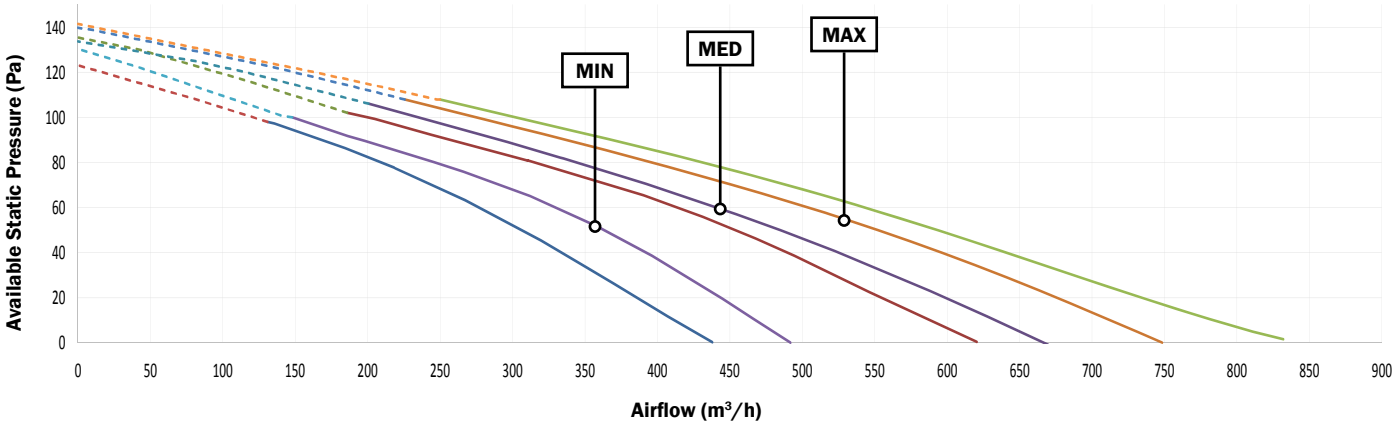
Maximum fan static pressure

When the unit is connected with ducts fan air flow is reduced due to the ducting pressure drops. With very high pressure drops fancoil air flow becomes too low and electric motor which is connected to the fan can be damaged. For this reason we recommend static pressures lower than the Maximum limit static pressures indicated in the schedule.

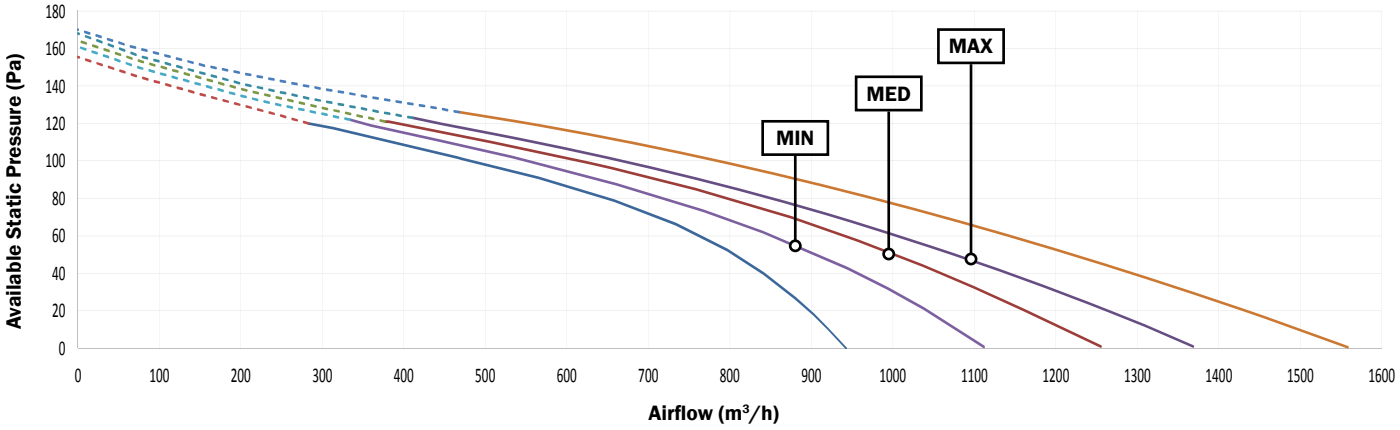
TECHNICAL DATA

AERAULIC PERFORMANCES (2 PIPE SYSTEM)

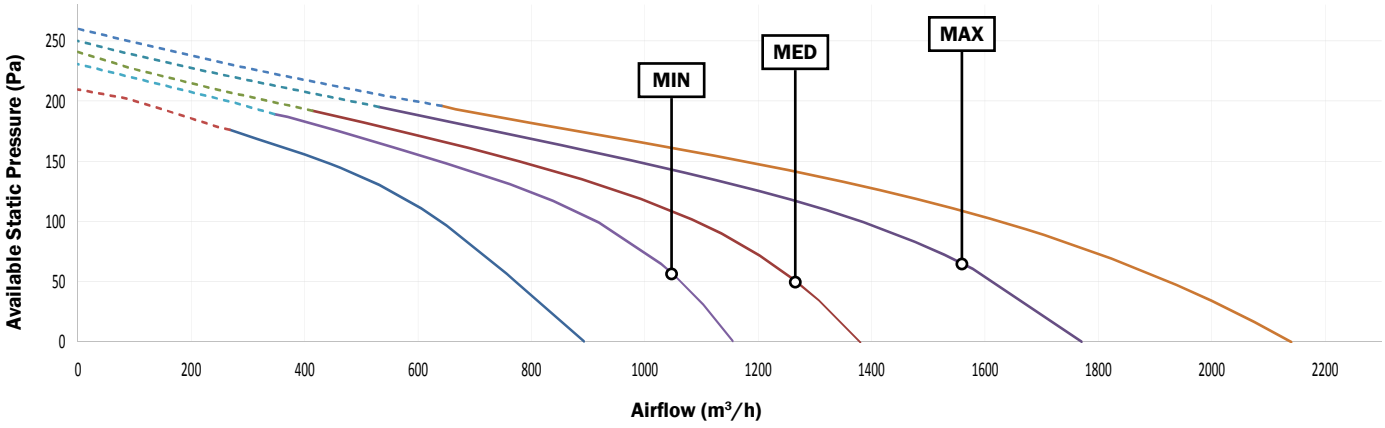
MOD. 1 (4R coil data)



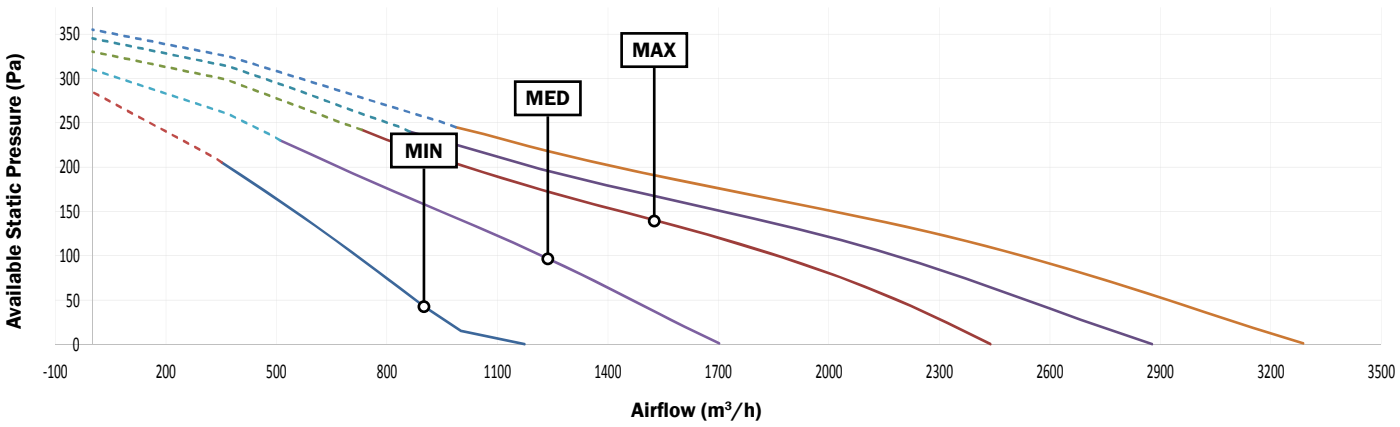
MOD. 2 (4R coil data)



MOD. 4 (4R coil data)



MOD. 4 (4R coil data)

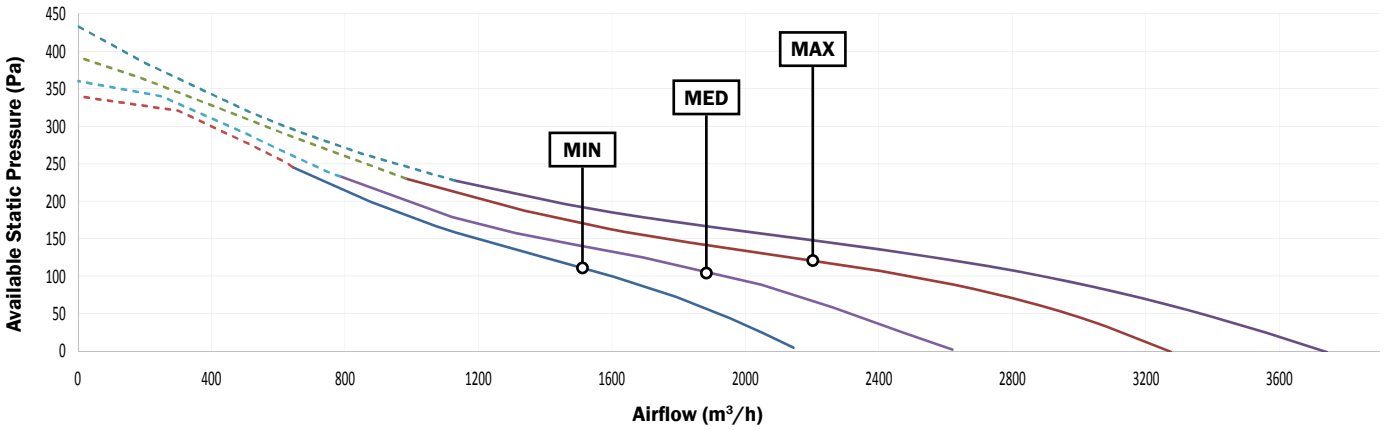


07_04_01_02

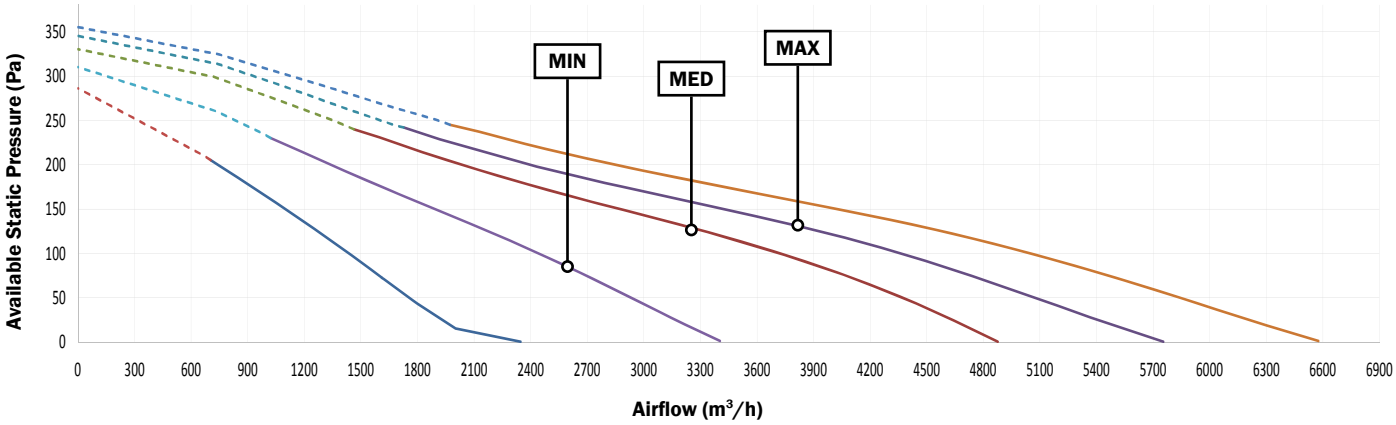
TECHNICAL DATA

AERAULIC PERFORMANCES (2 PIPE SYSTEM)

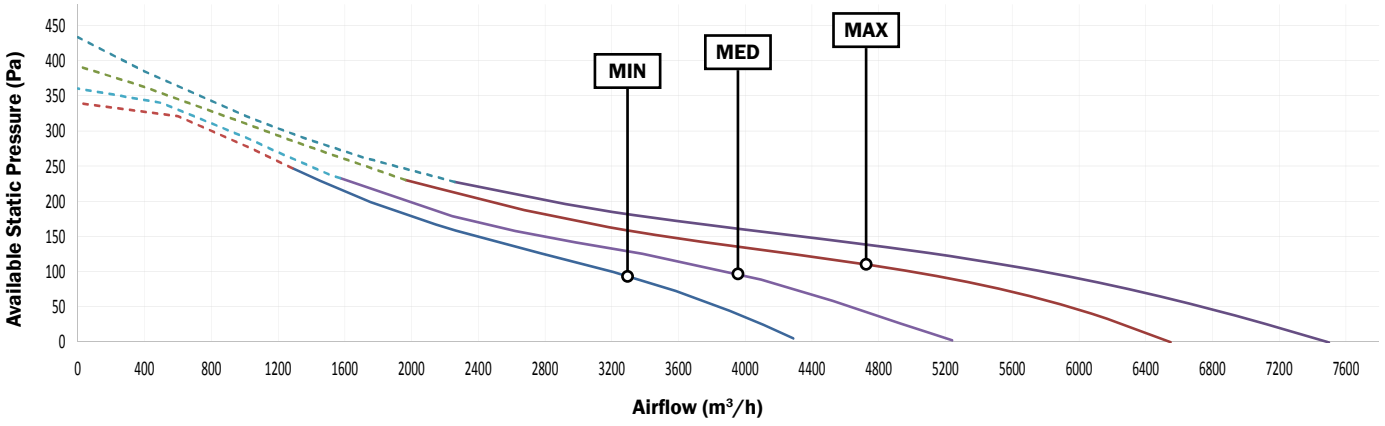
MOD. 5 (4R coil data)



MOD. 6 (4R coil data)



MOD. 7 (4R coil data)

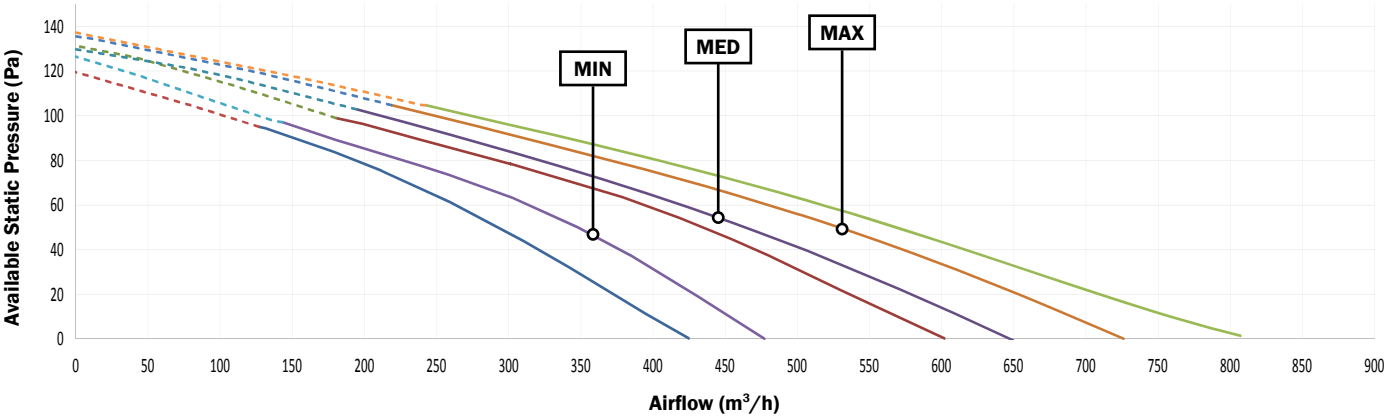


07_04_01_02

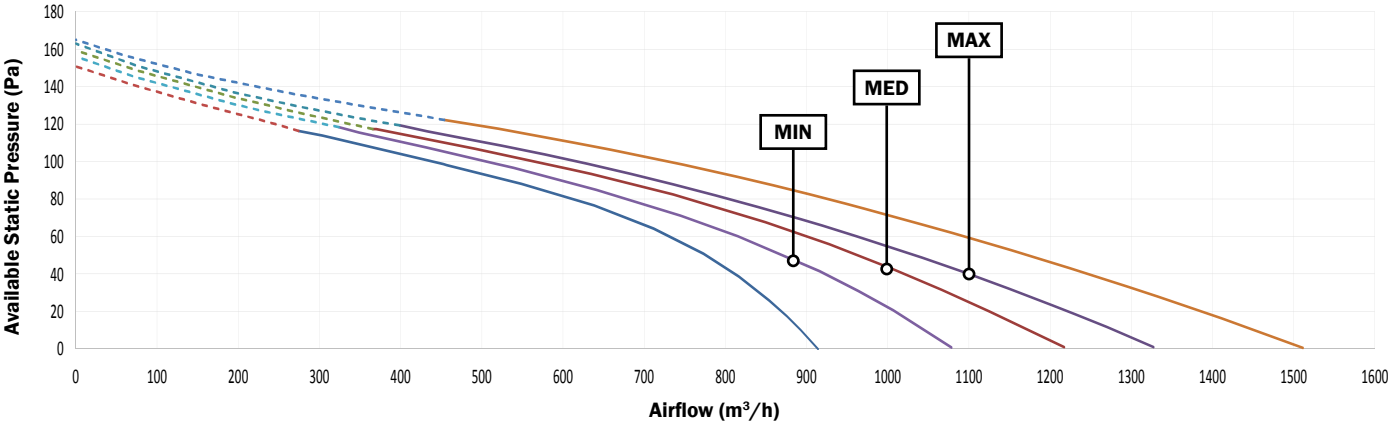
TECHNICAL DATA

AERAULIC PERFORMANCES (4 PIPE SYSTEM)

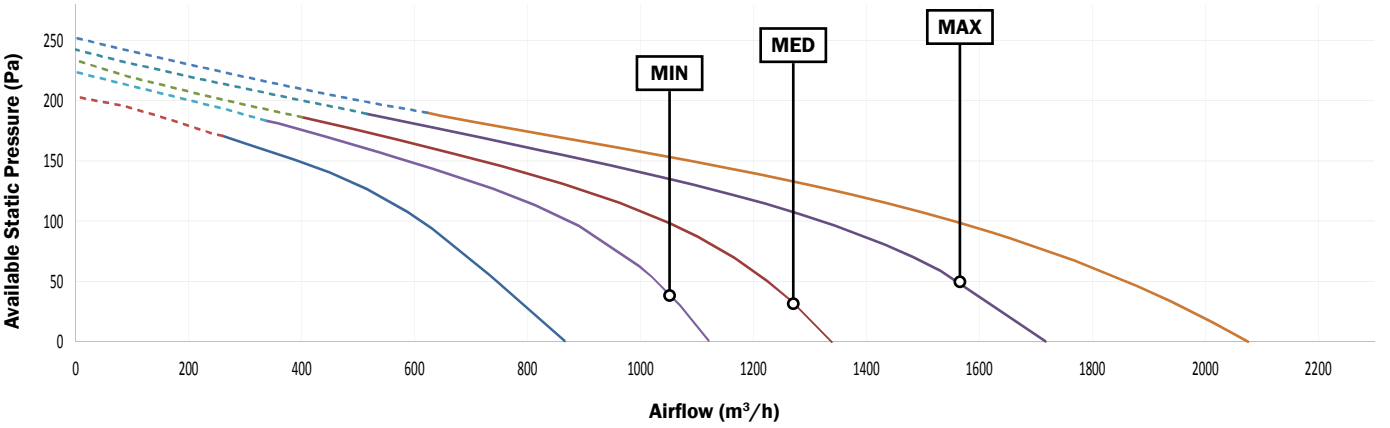
MOD. 1 (4R + 2R coil data)



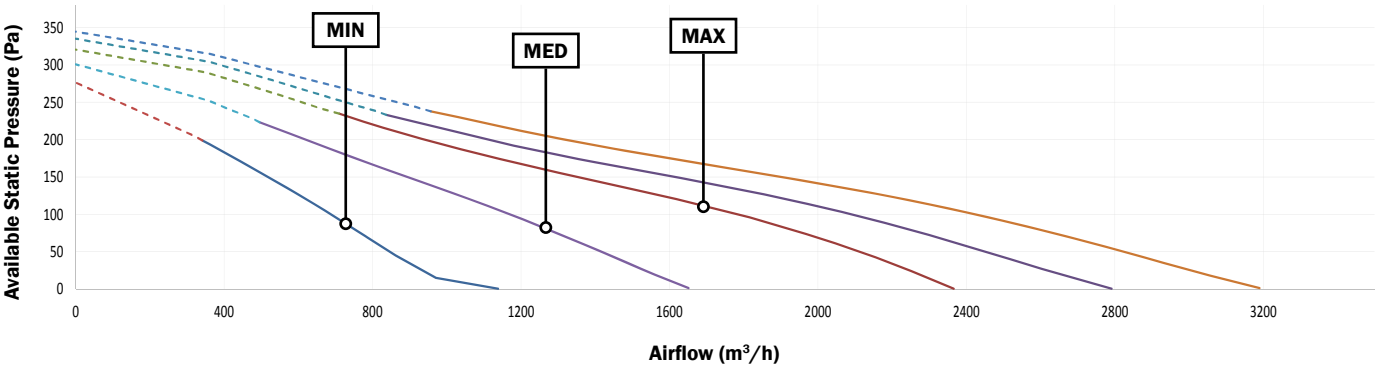
MOD. 2 (4R + 2R coil data)



MOD. 3 (4R + 2R coil data)



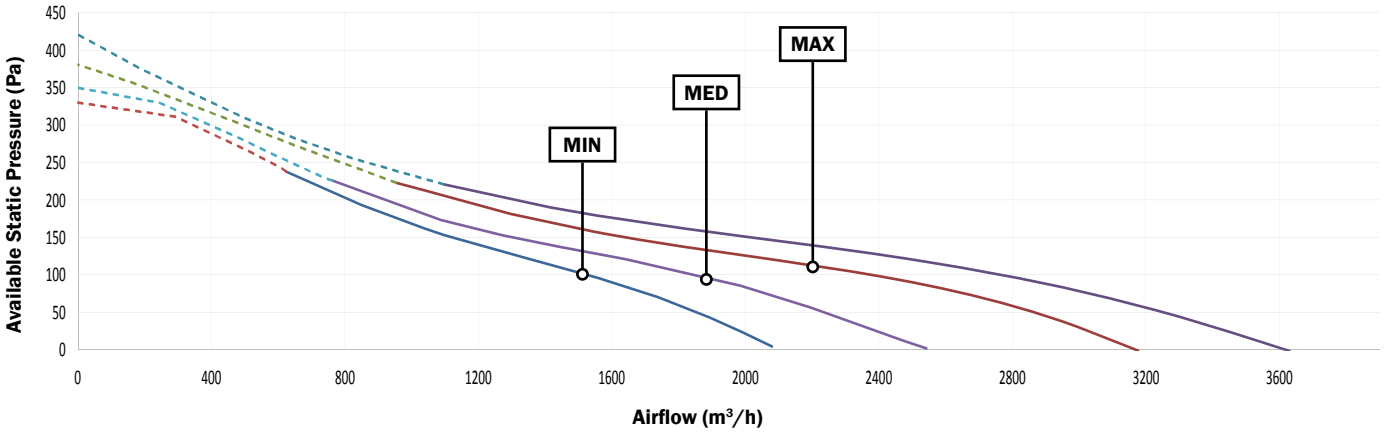
MOD. 4 (4R + 2R coil data)



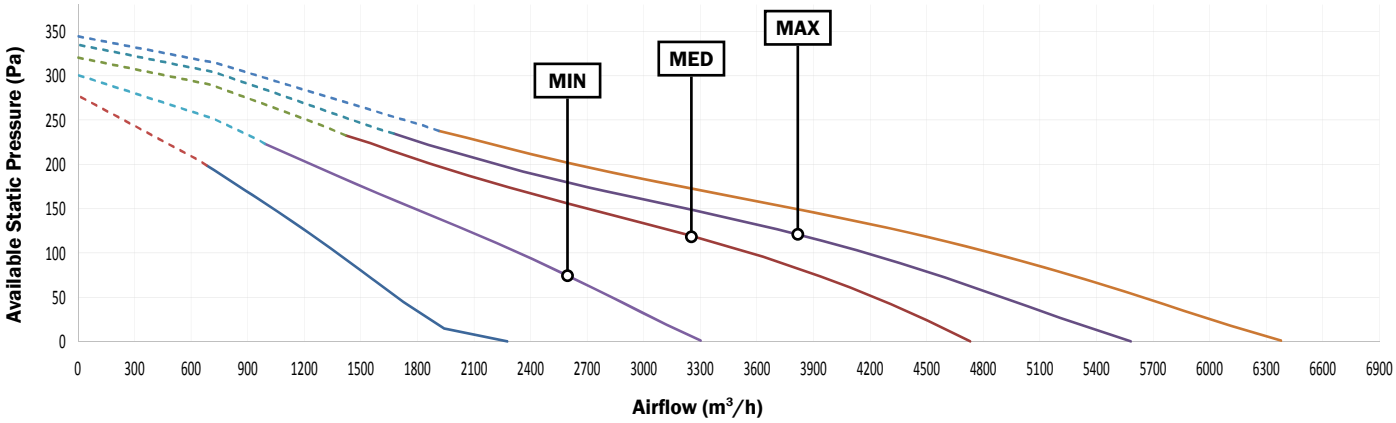
TECHNICAL DATA

AERAULIC PERFORMANCES (4 PIPE SYSTEM)

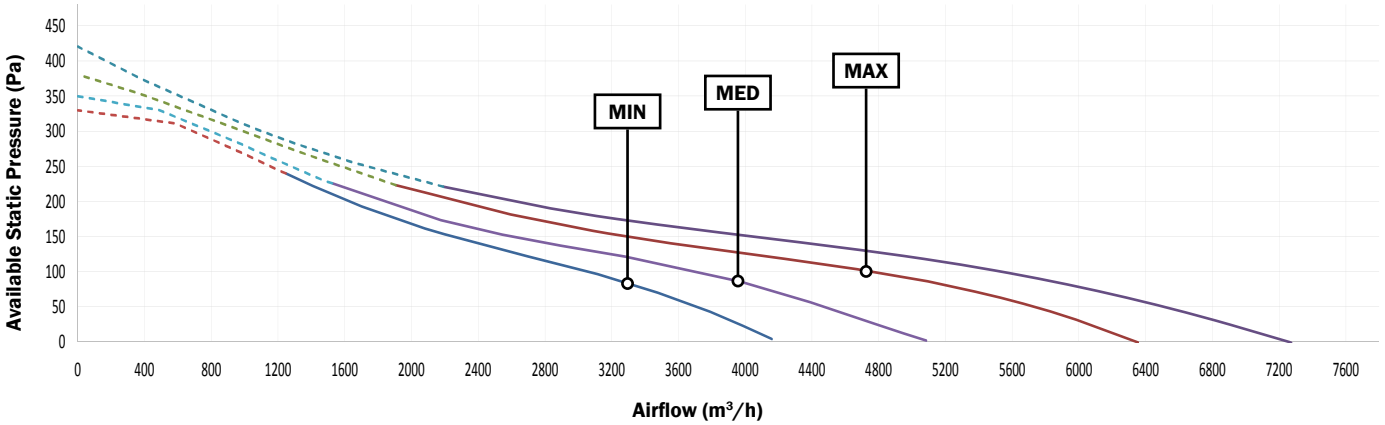
MOD. 5 (4R + 2R coil data)



MOD. 6 (4R + 2R coil data)



MOD. 7 (4R + 2R coil data)

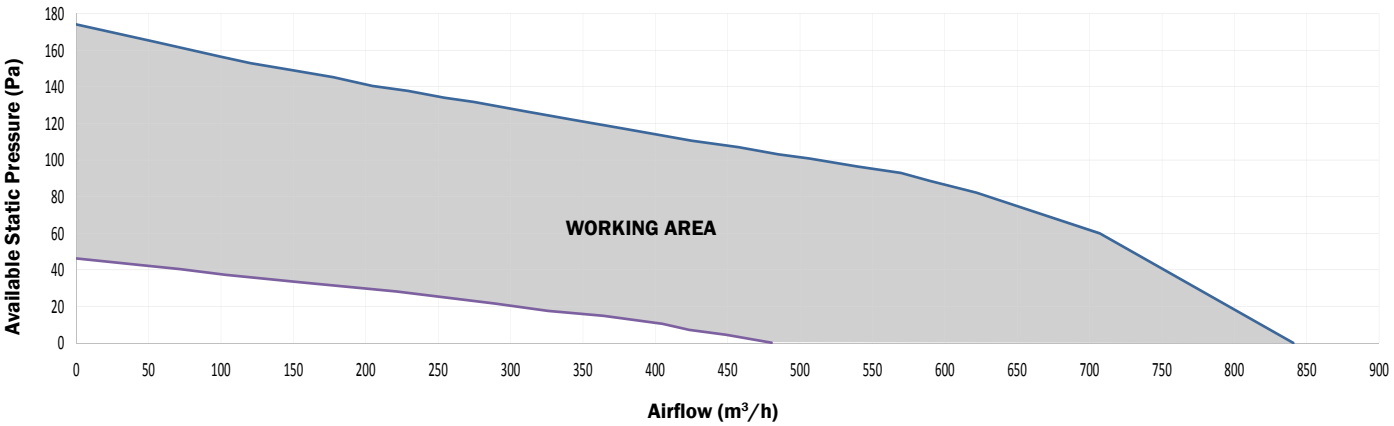


07_04_01_02

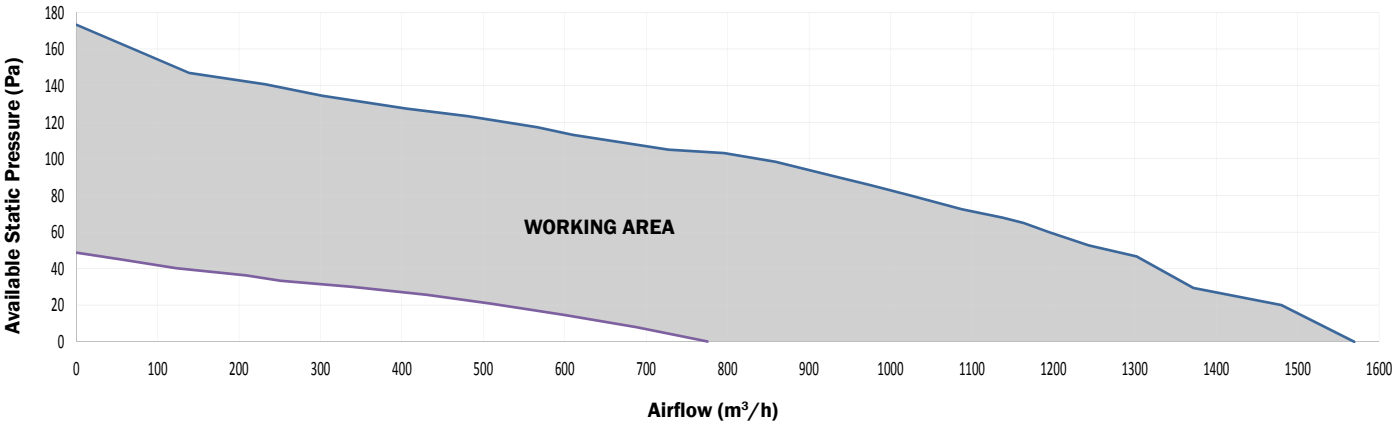
TECHNICAL DATA

AERAULIC PERFORMANCES ECM MOTORS

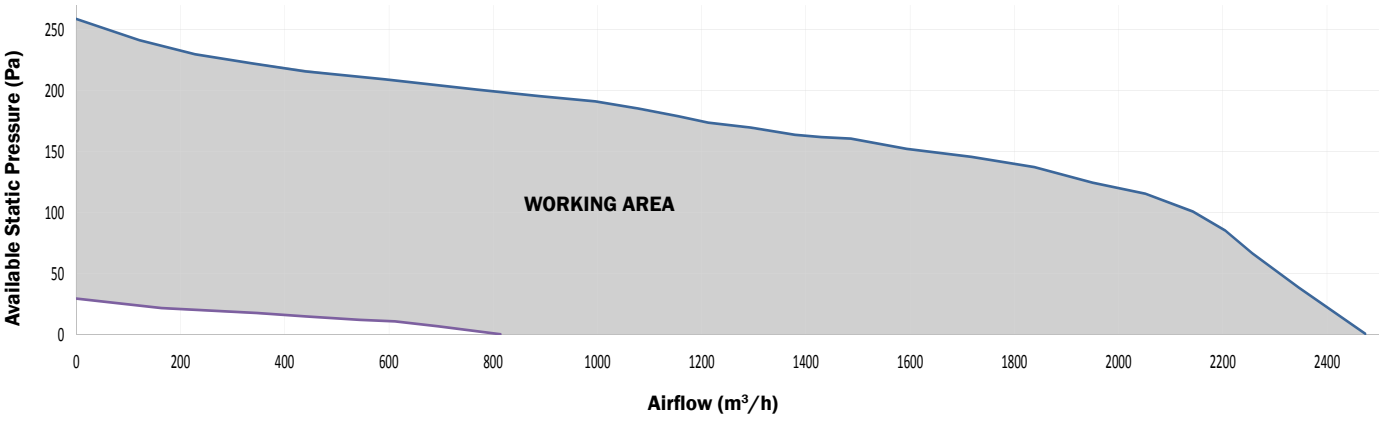
MOD. 1 ECM MOTOR (4R coil data)



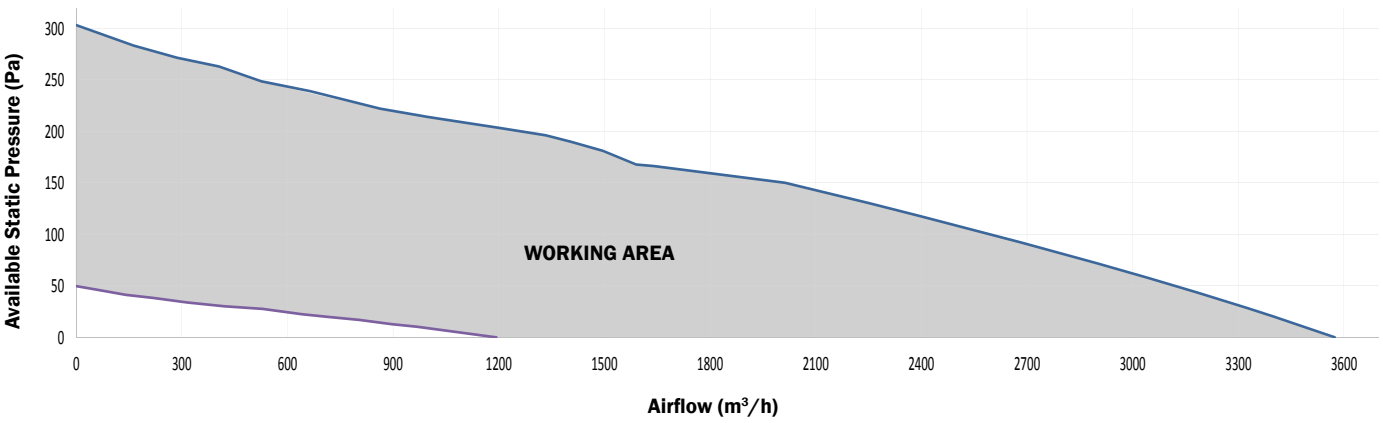
MOD. 2 ECM MOTOR (4R coil data)



MOD. 3 ECM MOTOR (4R coil data)



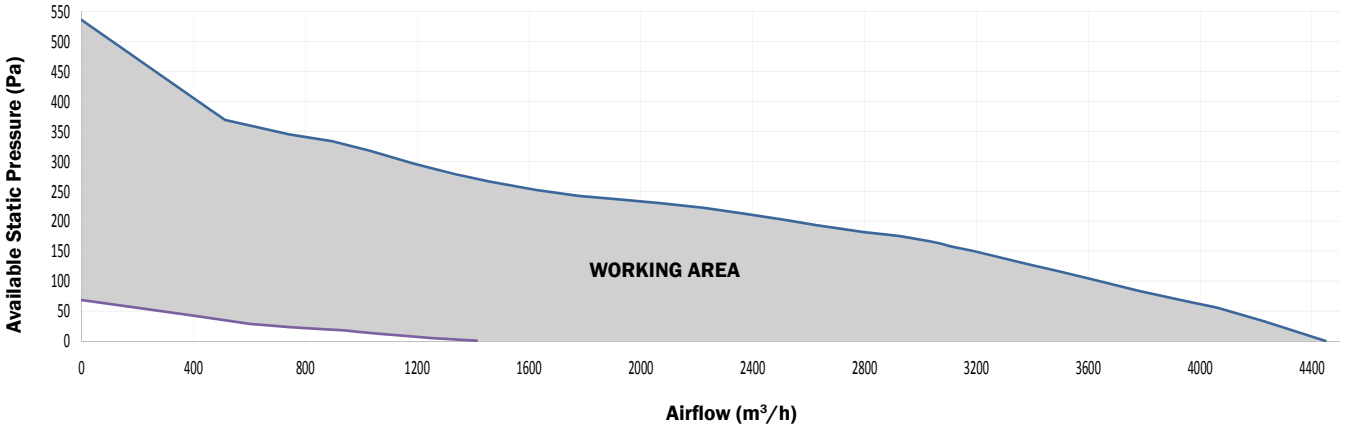
MOD. 4 - ECM MOTOR (4R coil data)



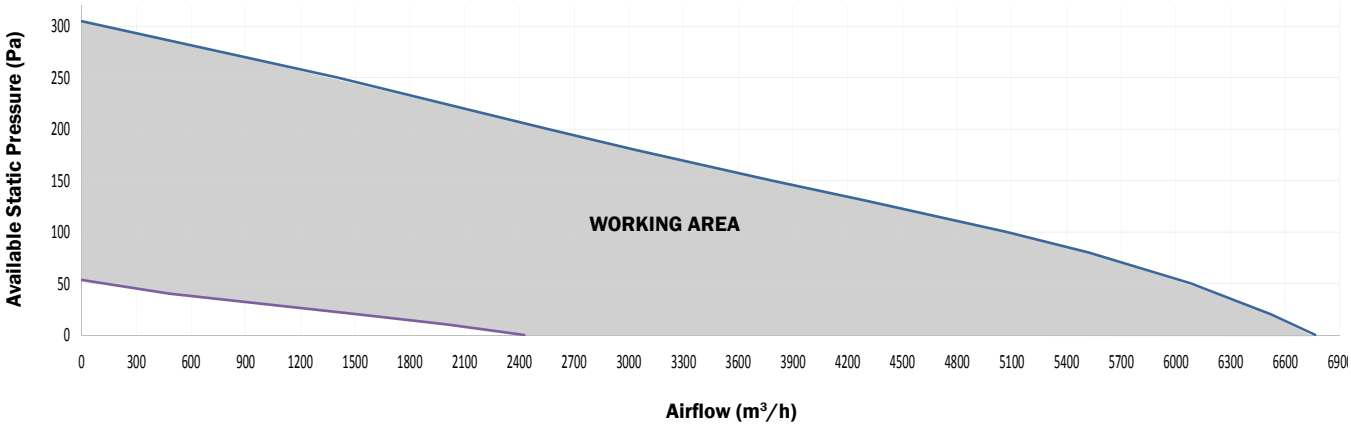
TECHNICAL DATA

AERAULIC PERFORMANCES ECM MOTORS

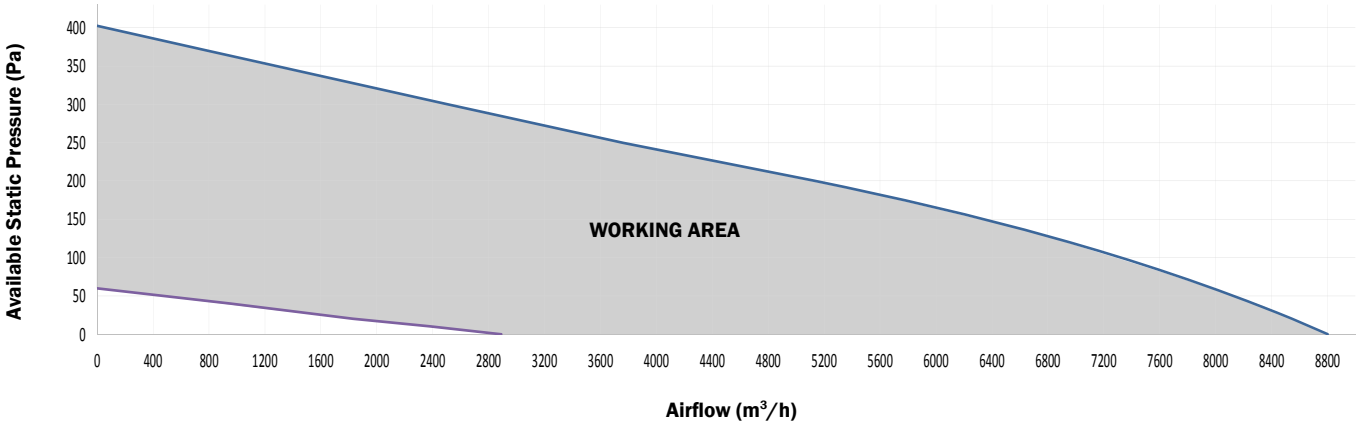
MOD. 5 - ECM MOTOR (4R coil data)



MOD. 6 - ECM MOTOR (4R coil data)



MOD. 7 - ECM MOTOR (4R coil data)



07_04_01_02

TECHNICAL DATA

SOUND POWER SPECTRUM - 2 PIPE SYSTEM (SINGLE SKIN)

MODEL	SOUND POWER LEVEL	SPEED	STANDARD ELECTRICAL WIRING	FREQUENCE SPECTRUM - REF. OCTAVE BAND (Hz)							TOTAL SOUND POWER [dB(A)]
				125	250	500	1000	2000	4000	8000	
1	INTAKE SIDE + CASING	6		71	66	60	56	51	43	36	63
		5	Max	70	65	59	55	50	42	35	62
		4	Med	68	63	57	53	48	40	33	60
		3		67	62	56	52	47	39	28	59
		2	Min	64	59	53	49	44	36	25	56
		1		62	57	51	47	42	33	21	54
	DISCHARGE SIDE	6		66	61	56	56	55	53	49	62
		5	Max	65	60	55	55	54	52	48	61
		4	Med	63	58	53	53	52	49	45	59
		3		62	57	52	52	51	48	44	58
		2	Min	59	54	49	49	48	45	40	55
		1		56	51	46	46	45	42	37	52
2	INTAKE SIDE + CASING	5		77	74	69	65	59	48	39	71
		4	Max	74	71	66	62	56	45	36	68
		3	Med	73	69	65	61	54	44	34	67
		2	Min	73	69	65	61	55	43	31	67
		1		69	65	61	57	51	39	27	63
	DISCHARGE SIDE	5		70	68	63	60	60	54	48	67
		4	Max	68	66	61	58	58	52	46	65
		3	Med	67	65	61	57	57	50	42	64
		2	Min	67	65	60	57	57	50	42	64
		1		63	61	57	53	53	46	38	60
3	INTAKE SIDE + CASING	5		70	66	61	61	55	50	41	65
		4	Max	68	64	59	59	53	48	39	63
		3	Med	65	61	57	54	49	43	33	59
		2	Min	62	56	53	49	44	38	24	55
		1		58	52	49	45	40	34	20	51
	DISCHARGE SIDE	5		69	66	64	64	63	57	50	69
		4	Max	66	63	61	61	60	54	47	66
		3	Med	60	57	55	55	54	48	41	60
		2	Min	57	54	52	52	51	45	38	57
		1		50	47	45	45	44	38	31	50
4	INTAKE SIDE + CASING	5		76	72	65	65	61	55	48	70
		4		74	70	63	63	59	53	46	68
		3	Max	70	66	59	59	55	49	42	64
		2	Med	64	59	54	54	49	41	34	58
		1	Min	61	56	51	51	46	38	31	55
	DISCHARGE SIDE	5		74	71	66	68	68	65	63	74
		4		70	67	62	64	64	61	59	70
		3	Max	66	63	58	61	60	57	54	66
		2	Med	60	56	51	54	53	50	46	59
		1	Min	57	53	48	51	50	47	43	56
5	INTAKE SIDE + CASING	4		79	75	68	68	64	58	51	73
		3	Max	76	72	65	65	61	55	48	70
		2	Med	73	68	63	63	58	50	43	67
		1	Min	69	64	59	59	54	46	39	63
	DISCHARGE SIDE	4		75	72	67	69	69	66	64	75
		3	Max	71	68	63	66	65	62	59	71
		2	Med	67	63	58	61	60	57	53	66
		1	Min	63	59	54	57	56	53	49	62
6	INTAKE SIDE + CASING	5		79	75	68	68	64	58	51	73
		4	Max	78	74	67	67	63	57	50	72
		3	Med	75	71	64	64	60	54	47	69
		2	Min	67	62	57	57	52	44	37	61
		1		61	56	51	51	46	38	31	55
	DISCHARGE SIDE	5		76	73	68	70	70	67	65	76
		4	Max	74	71	66	68	68	65	63	74
		3	Med	70	67	62	65	64	61	58	70
		2	Min	62	58	53	56	55	52	48	61
		1		56	52	47	50	49	46	42	55
7	INTAKE SIDE + CASING	4		82	78	71	71	67	61	54	76
		3	Max	80	76	69	69	65	59	52	74
		2	Med	76	71	66	66	61	53	46	70
		1	Min	72	67	62	62	57	49	42	66
	DISCHARGE SIDE	4		78	75	70	72	72	69	67	78
		3	Max	75	72	67	70	69	66	63	75
		2	Med	70	66	61	64	63	60	56	69
		1	Min	66	62	57	60	59	56	52	65

07_04_01_02

TECHNICAL DATA

SOUND POWER SPECTRUM - 4 PIPE SYSTEM (SINGLE SKIN)

MODEL	SOUND POWER LEVEL	SPEED	STANDARD ELECTRICAL WIRING	FREQUENCE SPECTRUM - REF. OCTAVE BAND (Hz)							TOTAL SOUND POWER [dB(A)]
				125	250	500	1000	2000	4000	8000	
1	INTAKE SIDE + CASING	6		71	66	60	56	51	43	36	63
		5	Max	70	65	59	55	50	42	35	62
		4	Med	68	63	57	53	48	40	33	60
		3		67	62	56	52	47	39	28	59
		2	Min	64	59	53	49	44	36	25	56
		1		62	57	51	47	42	33	21	54
	DISCHARGE SIDE	6		66	61	56	56	55	53	49	62
		5	Max	65	60	55	55	54	52	48	61
		4	Med	63	58	53	53	52	49	45	59
		3		62	57	52	52	51	48	44	58
		2	Min	59	54	49	49	48	45	40	55
		1		56	51	46	46	45	42	37	52
2	INTAKE SIDE + CASING	5		77	74	69	65	59	48	39	71
		4	Max	74	71	66	62	56	45	36	68
		3	Med	73	69	65	61	54	44	34	67
		2	Min	73	69	65	61	55	43	31	67
		1		69	65	61	57	51	39	27	63
	DISCHARGE SIDE	5		70	68	63	60	60	54	48	67
		4	Max	68	66	61	58	58	52	46	65
		3	Med	67	65	61	57	57	50	42	64
		2	Min	67	65	60	57	57	50	42	64
		1		63	61	57	53	53	46	38	60
3	INTAKE SIDE + CASING	5		70	66	61	61	55	50	41	65
		4	Max	68	64	59	59	53	48	39	63
		3	Med	65	61	57	54	49	43	33	59
		2	Min	62	56	53	49	44	38	24	55
		1		58	52	49	45	40	34	20	51
	DISCHARGE SIDE	5		69	66	64	64	63	57	50	69
		4	Max	66	63	61	61	60	54	47	66
		3	Med	60	57	55	55	54	48	41	60
		2	Min	54	51	49	49	48	42	35	54
		1		50	47	45	45	44	38	31	50
4	INTAKE SIDE + CASING	5		76	72	65	65	61	55	48	70
		4		74	70	63	63	59	53	46	68
		3	Max	74	70	63	63	59	53	46	68
		2	Med	68	63	58	58	53	45	38	62
		1	Min	61	56	51	51	46	38	31	55
	DISCHARGE SIDE	5		74	71	66	68	68	65	63	74
		4		70	67	62	64	64	61	59	70
		3	Max	68	65	60	63	62	59	56	68
		2	Med	63	59	54	57	56	53	49	62
		1	Min	57	53	48	51	50	47	43	56
5	INTAKE SIDE + CASING	4		78	74	67	67	63	57	50	72
		3	Max	76	72	65	65	61	55	48	70
		2	Med	73	68	63	63	58	50	43	67
		1	Min	69	64	59	59	54	46	39	63
	DISCHARGE SIDE	4		74	71	66	68	68	65	63	74
		3	Max	71	68	63	66	65	62	59	71
		2	Med	67	63	58	61	60	57	53	66
		1	Min	63	59	54	57	56	53	49	62
6	INTAKE SIDE + CASING	5		79	75	68	68	64	58	51	73
		4	Max	78	74	67	67	63	57	50	72
		3	Med	75	71	64	64	60	54	47	69
		2	Min	67	62	57	57	52	44	37	61
		1		61	56	51	51	46	38	31	55
	DISCHARGE SIDE	5		76	73	68	70	70	67	65	76
		4	Max	74	71	66	68	68	65	63	74
		3	Med	70	67	62	65	64	61	58	70
		2	Min	62	58	53	56	55	52	48	61
		1		56	52	47	50	49	46	42	55
7	INTAKE SIDE + CASING	4		82	78	71	71	67	61	54	76
		3	Max	80	76	69	69	65	59	52	74
		2	Med	76	71	66	66	61	53	46	70
		1	Min	74	69	64	64	59	51	44	68
	DISCHARGE SIDE	4		78	75	70	72	72	69	67	78
		3	Max	75	72	67	70	69	66	63	75
		2	Med	70	66	61	64	63	60	56	69
		1	Min	66	62	57	60	59	56	52	65

TECHNICAL DATA

SOUND POWER SPECTRUM - 2 PIPE SYSTEM (DOUBLE SKIN)

MODEL	SOUND POWER LEVEL	SPEED	STANDARD ELECTRICAL WIRING	FREQUENCE SPECTRUM - REF. OCTAVE BAND (Hz)							TOTAL SOUND POWER [dB(A)]
				125	250	500	1000	2000	4000	8000	
1	INTAKE SIDE + CASING	6		71	66	60	56	51	43	36	63
		5	Max	70	65	59	55	50	42	35	62
		4	Med	68	63	57	53	48	40	33	60
		3		67	62	56	52	47	39	28	59
		2	Min	64	59	53	49	44	36	25	56
		1		62	57	51	47	42	33	21	54
	DISCHARGE SIDE	6		66	61	56	56	55	53	49	62
		5	Max	65	60	55	55	54	52	48	61
		4	Med	63	58	53	53	52	49	45	59
		3		62	57	52	52	51	48	44	58
		2	Min	59	54	49	49	48	45	40	55
		1		56	51	46	46	45	42	37	52
2	INTAKE SIDE + CASING	5		77	74	69	65	59	48	39	71
		4	Max	74	71	66	62	56	45	36	68
		3	Med	73	69	65	61	54	44	34	67
		2	Min	73	69	65	61	55	43	31	67
		1		69	65	61	57	51	39	27	63
	DISCHARGE SIDE	5		70	68	63	60	60	54	48	67
		4	Max	68	66	61	58	58	52	46	65
		3	Med	67	65	61	57	57	50	42	64
		2	Min	67	65	60	57	57	50	42	64
		1		63	61	57	53	53	46	38	60
3	INTAKE SIDE + CASING	5		70	66	61	61	55	50	41	65
		4	Max	68	64	59	59	53	48	39	63
		3	Med	65	61	57	54	49	43	33	59
		2	Min	62	56	53	49	44	38	24	55
		1		58	52	49	45	40	34	20	51
	DISCHARGE SIDE	5		69	66	64	64	63	57	50	69
		4	Max	66	63	61	61	60	54	47	66
		3	Med	60	57	55	55	54	48	41	60
		2	Min	57	54	52	52	51	45	38	57
		1		50	47	45	45	44	38	31	50
4	INTAKE SIDE + CASING	5		76	72	65	65	61	55	48	70
		4		74	70	63	63	59	53	46	68
		3	Max	70	66	59	59	55	49	42	64
		2	Med	64	59	54	54	49	41	34	58
		1	Min	61	56	51	51	46	38	31	55
	DISCHARGE SIDE	5		74	71	66	68	68	65	63	74
		4		70	67	62	64	64	61	59	70
		3	Max	66	63	58	61	60	57	54	66
		2	Med	60	56	51	54	53	50	46	59
		1	Min	57	53	48	51	50	47	43	56
5	INTAKE SIDE + CASING	4		79	75	68	68	64	58	51	73
		3	Max	76	72	65	65	61	55	48	70
		2	Med	73	68	63	63	58	50	43	67
		1	Min	69	64	59	59	54	46	39	63
	DISCHARGE SIDE	4		75	72	67	69	69	66	64	75
		3	Max	71	68	63	66	65	62	59	71
		2	Med	67	63	58	61	60	57	53	66
		1	Min	63	59	54	57	56	53	49	62
6	INTAKE SIDE + CASING	5		79	75	68	68	64	58	51	73
		4	Max	78	74	67	67	63	57	50	72
		3	Med	75	71	64	64	60	54	47	69
		2	Min	67	62	57	57	52	44	37	61
		1		61	56	51	51	46	38	31	55
	DISCHARGE SIDE	5		76	73	68	70	70	67	65	76
		4	Max	74	71	66	68	68	65	63	74
		3	Med	70	67	62	65	64	61	58	70
		2	Min	62	58	53	56	55	52	48	61
		1		56	52	47	50	49	46	42	55
7	INTAKE SIDE + CASING	4		82	78	71	71	67	61	54	76
		3	Max	80	76	69	69	65	59	52	74
		2	Med	76	71	66	66	61	53	46	70
		1	Min	72	67	62	62	57	49	42	66
	DISCHARGE SIDE	4		78	75	70	72	72	69	67	78
		3	Max	75	72	67	70	69	66	63	75
		2	Med	70	66	61	64	63	60	56	69
		1	Min	66	62	57	60	59	56	52	65

07_04_01_02

TECHNICAL DATA

SOUND POWER SPECTRUM - 4 PIPE SYSTEM (DOUBLE SKIN)

MODEL	SOUND POWER LEVEL	SPEED	STANDARD ELECTRICAL WIRING	FREQUENCE SPECTRUM - REF. OCTAVE BAND (Hz)							TOTAL SOUND POWER [dB(A)]
				125	250	500	1000	2000	4000	8000	
1	INTAKE SIDE + CASING	6		71	66	60	56	51	43	36	63
		5	Max	70	65	59	55	50	42	35	62
		4	Med	68	63	57	53	48	40	33	60
		3		67	62	56	52	47	39	28	59
		2	Min	64	59	53	49	44	36	25	56
		1		62	57	51	47	42	33	21	54
	DISCHARGE SIDE	6		66	61	56	56	55	53	49	62
		5	Max	65	60	55	55	54	52	48	61
		4	Med	63	58	53	53	52	49	45	59
		3		62	57	52	52	51	48	44	58
		2	Min	59	54	49	49	48	45	40	55
		1		56	51	46	46	45	42	37	52
2	INTAKE SIDE + CASING	5		77	74	69	65	59	48	39	71
		4	Max	74	71	66	62	56	45	36	68
		3	Med	73	69	65	61	54	44	34	67
		2	Min	73	69	65	61	55	43	31	67
		1		69	65	61	57	51	39	27	63
	DISCHARGE SIDE	5		70	68	63	60	60	54	48	67
		4	Max	68	66	61	58	58	52	46	65
		3	Med	67	65	61	57	57	50	42	64
		2	Min	67	65	60	57	57	50	42	64
		1		63	61	57	53	53	46	38	60
3	INTAKE SIDE + CASING	5		70	66	61	61	55	50	41	65
		4	Max	68	64	59	59	53	48	39	63
		3	Med	65	61	57	54	49	43	33	59
		2	Min	62	56	53	49	44	38	24	55
		1		58	52	49	45	40	34	20	51
	DISCHARGE SIDE	5		69	66	64	64	63	57	50	69
		4	Max	66	63	61	61	60	54	47	66
		3	Med	60	57	55	55	54	48	41	60
		2	Min	54	51	49	49	48	42	35	54
		1		50	47	45	45	44	38	31	50
4	INTAKE SIDE + CASING	5		76	72	65	65	61	55	48	70
		4		74	70	63	63	59	53	46	68
		3	Max	74	70	63	63	59	53	46	68
		2	Med	68	63	58	58	53	45	38	62
		1	Min	61	56	51	51	46	38	31	55
	DISCHARGE SIDE	5		74	71	66	68	68	65	63	74
		4		70	67	62	64	64	61	59	70
		3	Max	68	65	60	63	62	59	56	68
		2	Med	63	59	54	57	56	53	49	62
		1	Min	57	53	48	51	50	47	43	56
5	INTAKE SIDE + CASING	4		78	74	67	67	63	57	50	72
		3	Max	76	72	65	65	61	55	48	70
		2	Med	73	68	63	63	58	50	43	67
		1	Min	69	64	59	59	54	46	39	63
	DISCHARGE SIDE	4		74	71	66	68	68	65	63	74
		3	Max	71	68	63	66	65	62	59	71
		2	Med	67	63	58	61	60	57	53	66
		1	Min	63	59	54	57	56	53	49	62
6	INTAKE SIDE + CASING	5		79	75	68	68	64	58	51	73
		4	Max	78	74	67	67	63	57	50	72
		3	Med	75	71	64	64	60	54	47	69
		2	Min	67	62	57	57	52	44	37	61
		1		61	56	51	51	46	38	31	55
	DISCHARGE SIDE	5		76	73	68	70	70	67	65	76
		4	Max	74	71	66	68	68	65	63	74
		3	Med	70	67	62	65	64	61	58	70
		2	Min	62	58	53	56	55	52	48	61
		1		56	52	47	50	49	46	42	55
7	INTAKE SIDE + CASING	4		82	78	71	71	67	61	54	76
		3	Max	80	76	69	69	65	59	52	74
		2	Med	76	71	66	66	61	53	46	70
		1	Min	74	69	64	64	59	51	44	68
	DISCHARGE SIDE	4		78	75	70	72	72	69	67	78
		3	Max	75	72	67	70	69	66	63	75
		2	Med	70	66	61	64	63	60	56	69
		1	Min	66	62	57	60	59	56	52	65

TECHNICAL DATA

RE-HEATING/COOLING SECTION WITH WATER COIL PERFORMANCE DATA (SRA) - COOLING

MOD. 1

		Water temperature: 7/12°C Air temperature: 25°C 50%			Water temperature: 7/12°C Air temperature: 27°C 47%			Water temperature: 10/15°C Air temperature: 25°C 50%			Water temperature: 10/15°C Air temperature: 27°C 47%		
	Unit air flow	Total capacity	Sensible capacity	Water flow	Total capacity	Sensible capacity	Water flow	Total capacity	Sensible capacity	Water flow	Total capacity	Sensible capacity	Water flow
	[m³/h]	[W]	[W]	[l/h]	[W]	[W]	[l/h]	[W]	[W]	[l/h]	[W]	[W]	[l/h]
2 ROWS	250	1062	834	182	1304	981	224	664	643	114	831	737	143
	350	1373	1098	236	1672	1282	287	901	873	155	1092	981	188
	450	1641	1333	282	1992	1553	342	1096	1075	188	1309	1195	225
	550	1880	1547	323	2279	1801	391	1273	1263	219	1507	1393	259
	650	2096	1745	360	2540	2031	436	1436	1436	247	1698	1588	292
	750	2295	1930	394	2780	2246	477	1589	1589	273	1878	1774	323
	850	2478	2104	425	3003	2449	515	1733	1733	298	2048	1951	352

MOD. 2

		Water temperature: 7/12°C Air temperature: 25°C 50%			Water temperature: 7/12°C Air temperature: 27°C 47%			Water temperature: 10/15°C Air temperature: 25°C 50%			Water temperature: 10/15°C Air temperature: 27°C 47%		
	Unit air flow	Total capacity	Sensible capacity	Water flow	Total capacity	Sensible capacity	Water flow	Total capacity	Sensible capacity	Water flow	Total capacity	Sensible capacity	Water flow
	[m³/h]	[W]	[W]	[l/h]	[W]	[W]	[l/h]	[W]	[W]	[l/h]	[W]	[W]	[l/h]
2 ROWS	250	1025	812	176	1426	1052	245	740	696	127	860	759	148
	450	1862	1471	319	2269	1720	389	1204	1157	207	1477	1312	254
	650	2432	1964	417	2949	2287	506	1615	1576	278	1942	1762	334
	850	2918	2399	501	3534	2790	606	1973	1956	339	2334	2157	401
	1050	3345	2792	574	4050	3246	695	2297	2297	395	2714	2544	466
	1250	3730	3153	640	4515	3666	775	2595	2595	446	3065	2907	527
	1470	4113	3520	706	4979	4093	854	2898	2898	498	3423	3285	588

MOD. 3

		Water temperature: 7/12°C Air temperature: 25°C 50%			Water temperature: 7/12°C Air temperature: 27°C 47%			Water temperature: 10/15°C Air temperature: 25°C 50%			Water temperature: 10/15°C Air temperature: 27°C 47%		
	Unit air flow	Total capacity	Sensible capacity	Water flow	Total capacity	Sensible capacity	Water flow	Total capacity	Sensible capacity	Water flow	Total capacity	Sensible capacity	Water flow
	[m³/h]	[W]	[W]	[l/h]	[W]	[W]	[l/h]	[W]	[W]	[l/h]	[W]	[W]	[l/h]
2 ROWS	400	1499	1210	257	2112	1585	362	1122	1075	193	1307	1175	225
	700	2690	2160	462	3340	2563	573	1608	1608	276	2142	1939	368
	1000	3514	2876	603	4316	3382	741	2370	2349	407	2837	2611	488
	1300	4210	3502	722	5151	4107	884	2895	2895	498	3448	3221	593
	1600	4820	4067	827	5889	4764	1010	3366	3366	579	4000	3788	688
	1900	5367	4584	921	6552	5368	1124	3798	3798	653	4510	4320	775
	2220	5896	5094	1012	7196	5964	1235	4225	4225	726	5014	4855	862

MOD. 4

		Water temperature: 7/12°C Air temperature: 25°C 50%			Water temperature: 7/12°C Air temperature: 27°C 47%			Water temperature: 10/15°C Air temperature: 25°C 50%			Water temperature: 10/15°C Air temperature: 27°C 47%		
	Unit air flow	Total capacity	Sensible capacity	Water flow	Total capacity	Sensible capacity	Water flow	Total capacity	Sensible capacity	Water flow	Total capacity	Sensible capacity	Water flow
	[m³/h]	[W]	[W]	[l/h]	[W]	[W]	[l/h]	[W]	[W]	[l/h]	[W]	[W]	[l/h]
2 ROWS	960	3323	2727	570	4245	3310	728	2036	2036	350	2762	2550	475
	1340	4326	3601	742	5406	4295	928	2978	2978	512	3613	3377	621
	1720	5157	4356	885	6399	5166	1098	3623	3623	623	4357	4126	749
	2100	5883	5033	1009	7276	5955	1248	4198	4198	721	5029	4820	864
	2480	6532	5653	1121	8065	6680	1384	4723	4723	812	5647	5471	971
	2860	7122	6226	1222	8785	7352	1507	5211	5211	896	6224	6097	1070
	3270	7706	6801	1322	9498	8028	1630	5703	5703	980	6806	6755	1170

TECHNICAL DATA

RE-HEATING/COOLING SECTION WITH WATER COIL PERFORMANCE DATA (SRA) - COOLING

MOD. 5

		Water temperature: 7/12°C Air temperature: 25°C 50%			Water temperature: 7/12°C Air temperature: 27°C 47%			Water temperature: 10/15°C Air temperature: 25°C 50%			Water temperature: 10/15°C Air temperature: 27°C 47%		
	Unit air flow	Total capacity	Sensible capacity	Water flow	Total capacity	Sensible capacity	Water flow	Total capacity	Sensible capacity	Water flow	Total capacity	Sensible capacity	Water flow
	[m³/h]	[W]	[W]	[l/h]	[W]	[W]	[l/h]	[W]	[W]	[l/h]	[W]	[W]	[l/h]
2 ROWS	1060	4055	3259	696	5007	3850	859	2592	2564	445	3222	2919	554
	1460	5130	4198	880	6285	4927	1078	3461	3427	595	4133	3803	710
	1860	6052	5030	1038	7395	5892	1269	4156	4156	714	4944	4616	850
	2260	6870	5787	1179	8383	6772	1438	4786	4786	823	5684	5373	977
	2660	7608	6484	1305	9279	7584	1592	5367	5367	922	6368	6087	1095
	3060	8283	7132	1421	10099	8341	1733	5909	5909	1016	7008	6763	1205
	3470	8921	7753	1531	10876	9069	1866	6431	6431	1105	7625	7426	1311

MOD. 6

		Water temperature: 7/12°C Air temperature: 25°C 50%			Water temperature: 7/12°C Air temperature: 27°C 47%			Water temperature: 10/15°C Air temperature: 25°C 50%			Water temperature: 10/15°C Air temperature: 27°C 47%		
	Unit air flow	Total capacity	Sensible capacity	Water flow	Total capacity	Sensible capacity	Water flow	Total capacity	Sensible capacity	Water flow	Total capacity	Sensible capacity	Water flow
	[m³/h]	[W]	[W]	[l/h]	[W]	[W]	[l/h]	[W]	[W]	[l/h]	[W]	[W]	[l/h]
2 ROWS	1900	7292	5857	1251	8791	6789	1508	4811	4663	827	5865	5284	1008
	2670	9154	7528	1571	11032	8722	1893	6178	6117	1062	7360	6795	1265
	3440	10747	9004	1844	12955	10434	2223	7387	7387	1270	8703	8188	1496
	4210	12148	10336	2084	14650	11981	2514	8482	8482	1458	9993	9539	1718
	4980	13405	11554	2300	16172	13398	2775	9489	9489	1631	11181	10806	1922
	5750	14547	12680	2496	17557	14709	3012	10424	10424	1792	12286	12015	2112
	6540	15622	13755	2680	18862	15962	3236	11322	11322	1946	13347	13231	2294

MOD. 7

		Water temperature: 7/12°C Air temperature: 25°C 50%			Water temperature: 7/12°C Air temperature: 27°C 47%			Water temperature: 10/15°C Air temperature: 25°C 50%			Water temperature: 10/15°C Air temperature: 27°C 47%		
	Unit air flow	Total capacity	Sensible capacity	Water flow	Total capacity	Sensible capacity	Water flow	Total capacity	Sensible capacity	Water flow	Total capacity	Sensible capacity	Water flow
	[m³/h]	[W]	[W]	[l/h]	[W]	[W]	[l/h]	[W]	[W]	[l/h]	[W]	[W]	[l/h]
2 ROWS	1900	7109	5741	1220	8681	6722	1489	2074	2074	357	3388	3388	584
	2800	9283	7686	1593	11294	8972	1938	2485	2485	428	4619	4619	796
	3700	11099	9373	1904	13492	10935	2315	4080	4080	703	5658	5658	975
	4600	12675	10878	2175	15405	12689	2643	4798	4798	827	6582	6582	1134
	5500	14075	12243	2415	17107	14284	2935	5438	5438	937	7422	7422	1279
	6400	15337	13497	2632	18645	15751	3199	6023	6023	1038	8196	8196	1412
	7030	16154	14318	2772	19642	16713	3370	6406	6406	1104	8705	8705	1500

TECHNICAL DATA

RE-HEATING/COOLING SECTION WITH WATER COIL PERFORMANCE DATA (SRA) - HEATING

MOD. 1

		Water temperature: 45/40°C Air temperature: 20°C		Water temperature: 50/40°C Air temperature: 20°C		Water temperature: 70/60°C Air temperature: 20°C	
	Unit air flow [m³/h]	Total capacity [W]	Water flow [l/h]	Total capacity [W]	Water flow [l/h]	Total capacity [W]	Water flow [l/h]
2 ROWS	250	1390	242	1524	133	2804	246
	350	1799	313	1966	171	3626	319
	450	2168	378	2364	206	4371	384
	550	2508	437	2728	238	5056	444
	650	2824	492	3068	267	5695	500
	750	3122	544	3386	295	6295	553
	850	3403	593	3686	321	6861	603

MOD. 2

		Water temperature: 45/40°C Air temperature: 20°C		Water temperature: 50/40°C Air temperature: 20°C		Water temperature: 70/60°C Air temperature: 20°C	
	Unit air flow [m³/h]	Total capacity [W]	Water flow [l/h]	Total capacity [W]	Water flow [l/h]	Total capacity [W]	Water flow [l/h]
2 ROWS	250	1522	265	1673	146	3069	270
	450	2418	421	2649	231	4876	428
	650	3189	556	3482	304	6430	565
	850	3878	676	4221	368	7817	687
	1050	4505	785	4894	427	9083	798
	1250	5085	886	5514	481	10254	901
	1470	5680	989	6148	536	11452	1006

MOD. 3

		Water temperature: 45/40°C Air temperature: 20°C		Water temperature: 50/40°C Air temperature: 20°C		Water temperature: 70/60°C Air temperature: 20°C	
	Unit air flow [m³/h]	Total capacity [W]	Water flow [l/h]	Total capacity [W]	Water flow [l/h]	Total capacity [W]	Water flow [l/h]
2 ROWS	400	2377	414	2589	226	4802	422
	700	3683	642	4007	349	7436	653
	1000	4809	838	5216	455	9708	853
	1300	5815	1013	6293	549	11739	1031
	1600	6733	1173	7272	634	13592	1194
	1900	7582	1321	8175	713	15306	1344
	2220	8426	1468	9071	791	17010	1494

MOD. 4

		Water temperature: 45/40°C Air temperature: 20°C		Water temperature: 50/40°C Air temperature: 20°C		Water temperature: 70/60°C Air temperature: 20°C	
	Unit air flow [m³/h]	Total capacity [W]	Water flow [l/h]	Total capacity [W]	Water flow [l/h]	Total capacity [W]	Water flow [l/h]
2 ROWS	960	4886	851	5272	460	9881	868
	1340	6255	1090	6735	587	12645	1111
	1720	7481	1303	8040	701	15125	1329
	2100	8603	1499	9230	805	17393	1528
	2480	9643	1680	10329	901	19494	1712
	2860	10614	1849	11354	990	21458	1885
	3270	11598	2021	12391	1081	23449	2060

TECHNICAL DATA

RE-HEATING/COOLING SECTION WITH WATER COIL PERFORMANCE DATA (SRA) - HEATING

MOD. 5

		Water temperature: 45/40 °C Air temperature: 20 °C		Water temperature: 50/40 °C Air temperature: 20 °C		Water temperature: 70/60 °C Air temperature: 20 °C	
	Unit air flow	Total capacity	Water flow	Total capacity	Water flow	Total capacity	Water flow
	[m³/h]	[W]	[l/h]	[W]	[l/h]	[W]	[l/h]
2 ROWS	1060	5503	959	5989	522	11108	976
	1460	6985	1217	7581	661	14098	1239
	1860	8322	1450	9012	786	16797	1476
	2260	9549	1664	10321	900	19275	1694
	2660	10690	1862	11535	1006	21577	1895
	3060	11759	2048	12671	1105	23736	2085
	3470	12792	2228	13767	1200	25822	2268

MOD. 6

		Water temperature: 45/40 °C Air temperature: 20 °C		Water temperature: 50/40 °C Air temperature: 20 °C		Water temperature: 70/60 °C Air temperature: 20 °C	
	Unit air flow	Total capacity	Water flow	Total capacity	Water flow	Total capacity	Water flow
	[m³/h]	[W]	[l/h]	[W]	[l/h]	[W]	[l/h]
2 ROWS	1900	9374	1633	10264	895	18885	1659
	2670	12004	2092	13094	1142	24183	2125
	3440	14346	2499	15608	1361	28907	2540
	4210	16478	2870	17889	1560	33203	2916
	4980	18444	3213	19990	1743	37167	3264
	5750	20276	3532	21943	1913	40860	3589
	6540	22038	3839	23819	2077	44413	3901

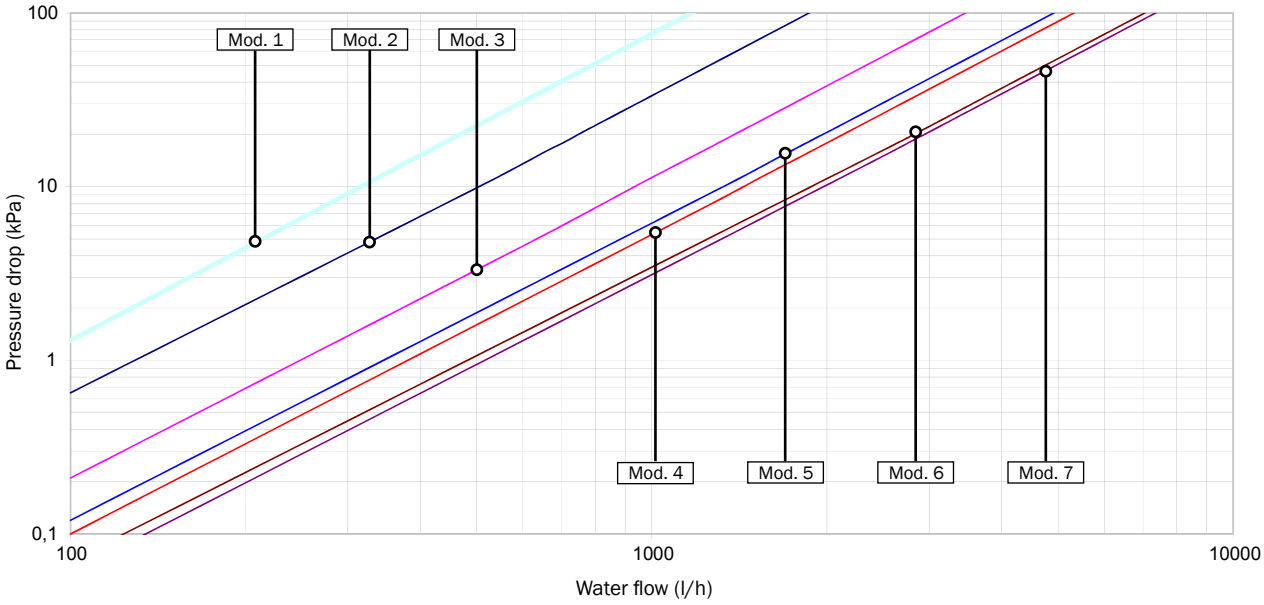
MOD. 7

		Water temperature: 45/40 °C Air temperature: 20 °C		Water temperature: 50/40 °C Air temperature: 20 °C		Water temperature: 70/60 °C Air temperature: 20 °C	
	Unit air flow	Total capacity	Water flow	Total capacity	Water flow	Total capacity	Water flow
	[m³/h]	[W]	[l/h]	[W]	[l/h]	[W]	[l/h]
2 ROWS	1900	9482	1652	10329	901	19127	1680
	2800	12582	2193	13653	1190	25381	2230
	3700	15307	2667	16564	1444	30883	2714
	4600	17766	3095	19183	1673	35845	3148
	5500	20020	3488	21577	1881	40395	3548
	6400	22110	3852	23793	2075	44613	3919
	7030	23490	4092	25254	2202	47399	4163

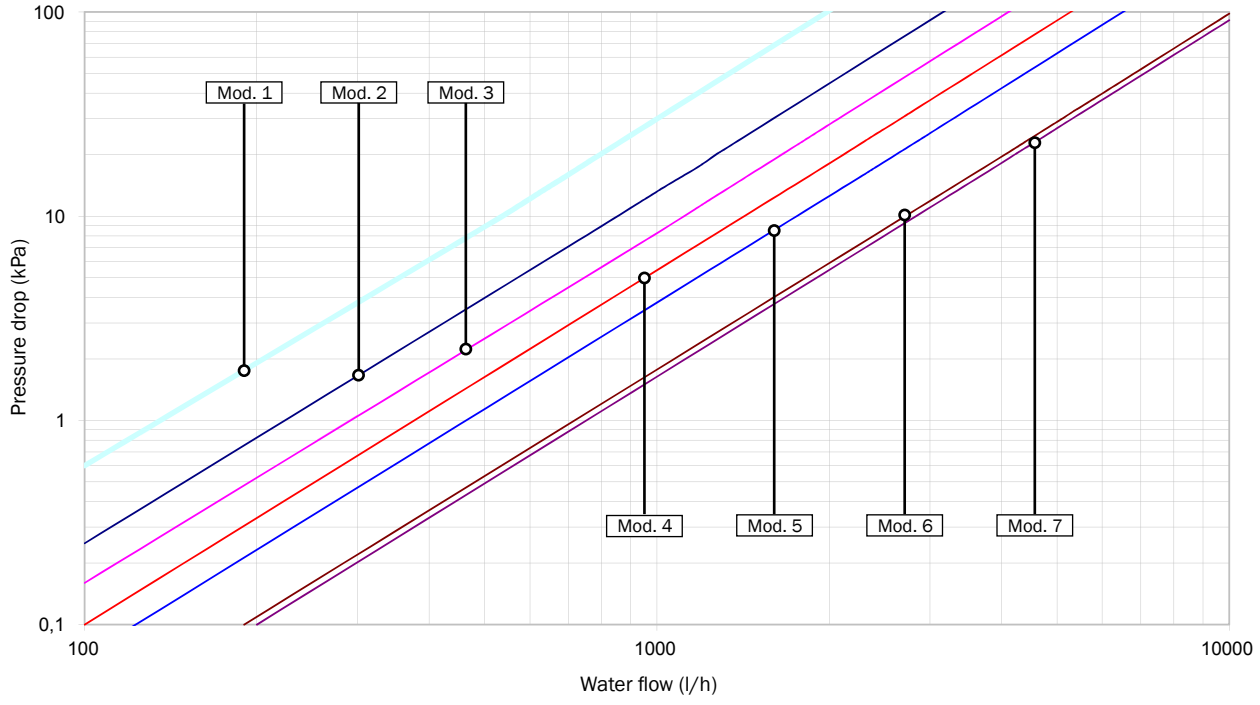
TECHNICAL DATA

COILS WATER PRESSURE DROP

2 ROWS COIL



4 ROWS COIL

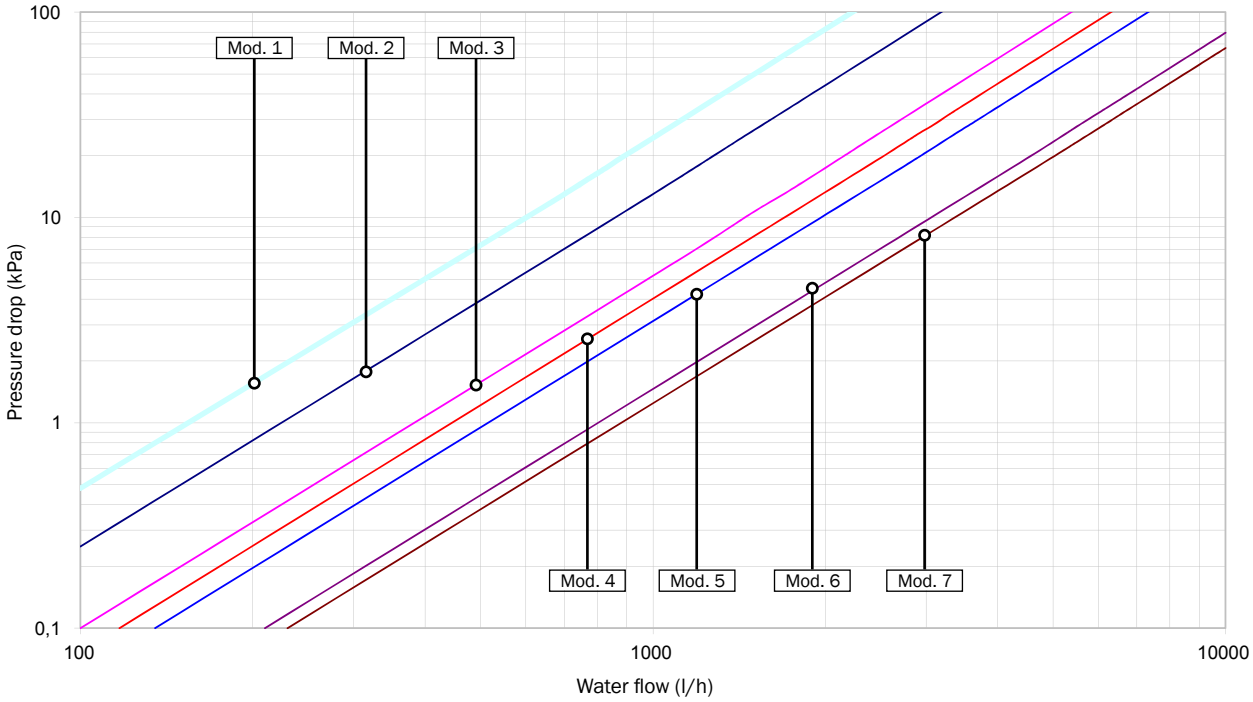


07_04_01_02

TECHNICAL DATA

COILS WATER PRESSURE DROP

6 ROWS COIL

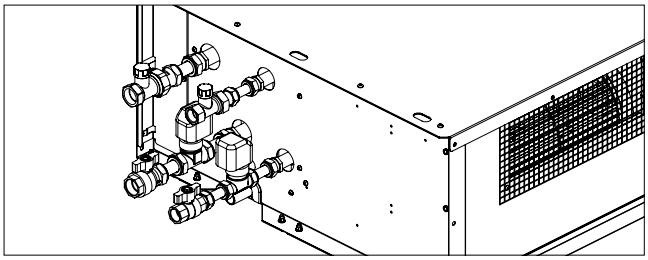


VALVES

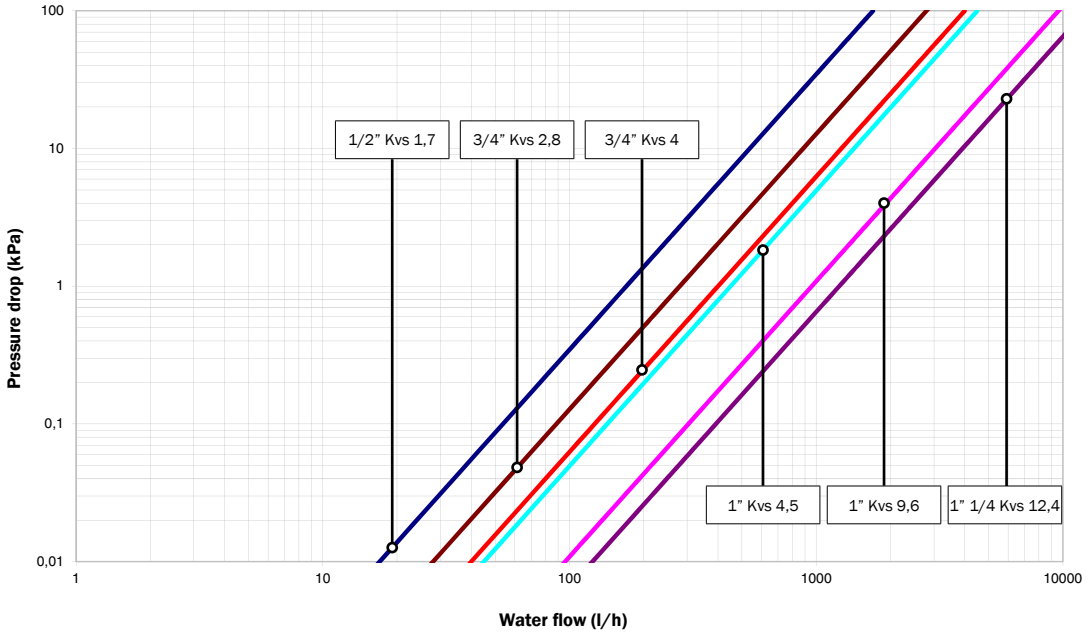
2-WAY VALVE KIT

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	16 bar
Fluid min temperature	4 °C
Fluid max temperature	110 °C
Liquids allowed	Water with glycol < 50%
Shutter stroke	2.5 mm
By-pass leakage	< 0,02 % Kvs
Actuator attachment	threaded ring M 30 x 1.5



MOD.	1	2	3	4	5	6	7
Coil	2R	2R	2R	2R	2R	2R	2R
Ø coil fittings	1/2"	1/2"	3/4"	3/4"	1"	1"	1"
Ø valve fittings	1/2"	1/2"	3/4"	1"	1"	1"	1"
KVS	1,7	1,7	4	4,5	4,5	9,6	9,6
Coil	4R	4R	4R	4R	4R	4R	4R
Ø coil fittings	1/2"	3/4"	3/4"	1"	1"	1" 1/4	1"1/2
Ø valve fittings	1/2"	3/4"	3/4"	1"	1"	1"	1"
KVS	1,7	2,8	4	4,5	4,5	9,6	9,6
Coil	6R	6R	6R	6R	6R	6R	6R
Ø coil fittings	3/4"	3/4"	1"	1"	1" 1/4	1" 1/2	1" 1/2
Ø valve fittings	3/4"	3/4"	1"	1"	1"	1" 1/4	1" 1/4
KVS	2,8	4	4,5	9,6	9,6	12,4	12,4



07_04_01_02

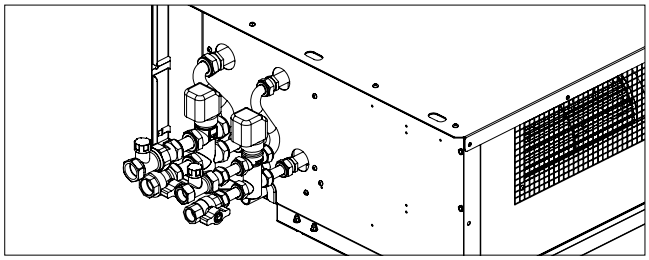
VALVES

3-WAY VALVE KIT

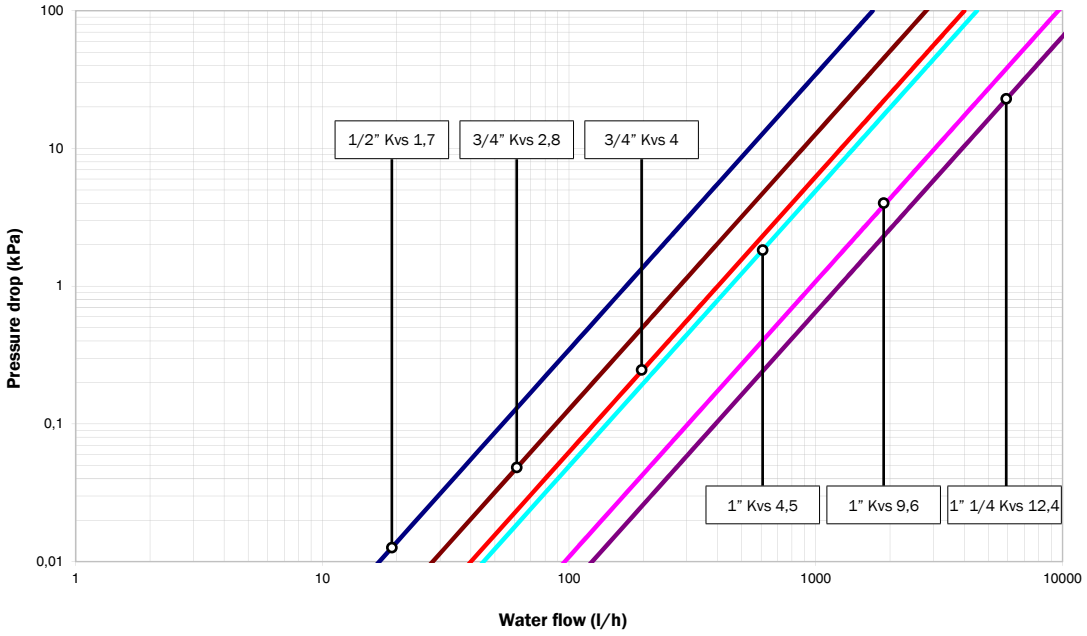
ON/OFF 3-way valve kits with bypass (4 fittings) are available. The valve body is made of brass; the shutter is controlled by an ON/OFF electrothermal actuator (230 Vac input). When there is no power supply, the valve is closed. During functioning the electrothermal actuator is completely silent. The 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	16 bar
Fluid min temperature	4 °C
Fluid max temperature	110 °C
Liquids allowed	Water with glycol < 50%
Shutter stroke	2.5 mm
By-pass leakage	< 0,02 % Kvs
Actuator attachment	threaded ring M 30 x 1.5



MOD.		1	2	3	4	5	6	7
Coil		2R	2R	2R	2R	2R	2R	2R
Ø coil fittings		1/2"	1/2"	3/4"	3/4"	1"	1"	1"
Ø valve fittings		1/2"	1/2"	3/4"	1"	1"	1"	1"
KVS	main	1,7	1,7	4	4,5	4,5	9,6	9,6
	by-pass	1,3	1,3	1,8	3,1	3,1	8,6	8,6
Coil		4R	4R	4R	4R	4R	4R	4R
Ø coil fittings		1/2"	3/4"	3/4"	1"	1"	1" 1/4	1"1/2
Ø valve fittings		1/2"	3/4"	3/4"	1"	1"	1"	1"
KVS	main	1,7	2,8	4	4,5	4,5	9,6	9,6
	by-pass	1,3	1,8	1,8	3,1	3,1	8,6	8,6
Coil		6R	6R	6R	6R	6R	6R	6R
Ø coil fittings		3/4"	3/4"	1"	1"	1" 1/4	1" 1/2	1" 1/2
Ø valve fittings		3/4"	3/4"	1"	1"	1"	1" 1/4	1" 1/4
KVS	main	2,8	4	4,5	9,6	9,6	12,4	12,4
	by-pass	1,8	1,8	3,1	8,6	8,6	10,5	10,5



07_04_01_02

VALVES

SHUT OFF/BALANCING VALVE

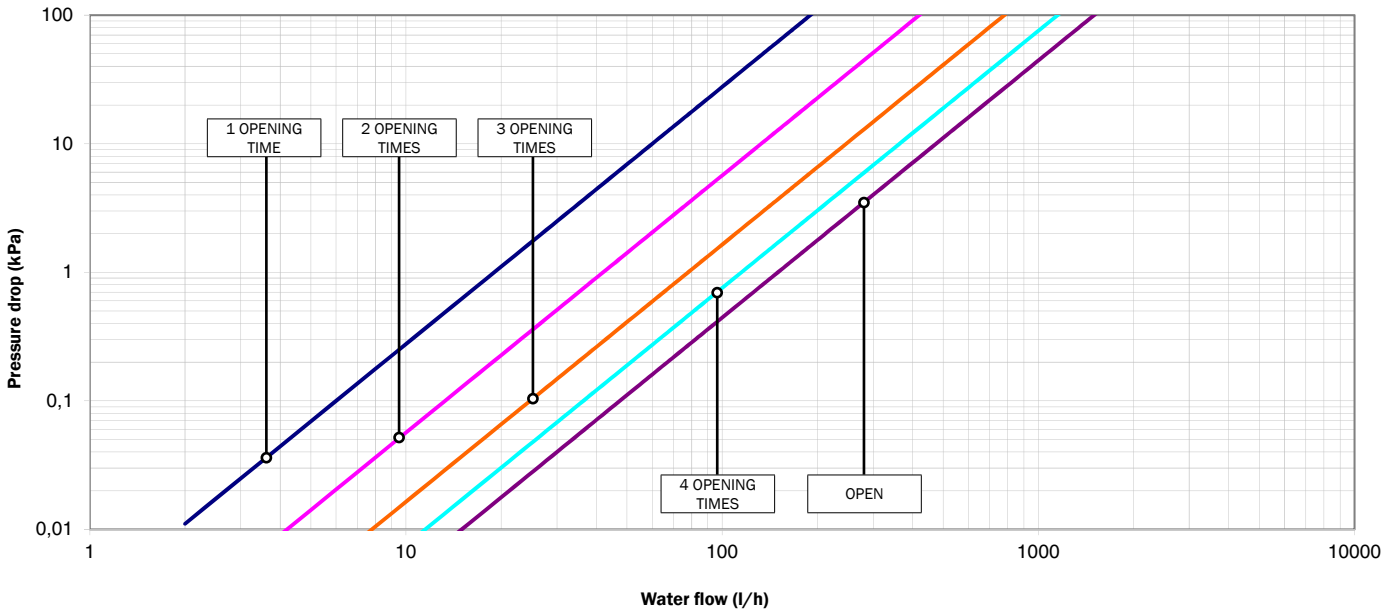
Ball valve and holder kit are available for a proper balancing of the system.
The kit is already mounted onto the fan coil unit.

BALANCING VALVE technical data:	
Max pressure	10 bar
Fluid min temperature	4 °C
Fluid max temperature	100 °C
Liquids allowed	Water with glycol < 50%

SHUT-OFF VALVE technical data:	
Max pressure	30 bar
Fluid min temperature	4 °C
Fluid max temperature	100 °C
Liquids allowed	Water with glycol < 50%

MOD.	1	2	3	4	5	6	7
Coil	2R	2R	2R	2R	2R	2R	2R
Ø coil fittings	1/2"	1/2"	3/4"	3/4"	1"	1"	1"
Ø valve fittings	1/2"	1/2"	3/4"	1"	1"	1"	1"
KVS	1,5	1,5	3,5	6,4	6,4	6,4	6,4
Coil	4R	4R	4R	4R	4R	4R	4R
Ø coil fittings	1/2"	3/4"	3/4"	1"	1"	1" 1/4	1"1/2
Ø valve fittings	1/2"	3/4"	1''	1"	1"	1" 1/4	1" 1/4
KVS	1,5	3,5	6,4	6,4	6,4	14,2	14,2
Coil	6R	6R	6R	6R	6R	6R	6R
Ø coil fittings	3/4"	3/4"	1"	1"	1"1/4	1"1/2	1"1/2
Ø valve fittings	3/4"	3/4"	1"	1"	1"	1" 1/4	1"1/2
KVS	3,5	3,5	6,4	6,4	6,4	14,2	19,2

Balancing valve 1/2" Kvs 1,5

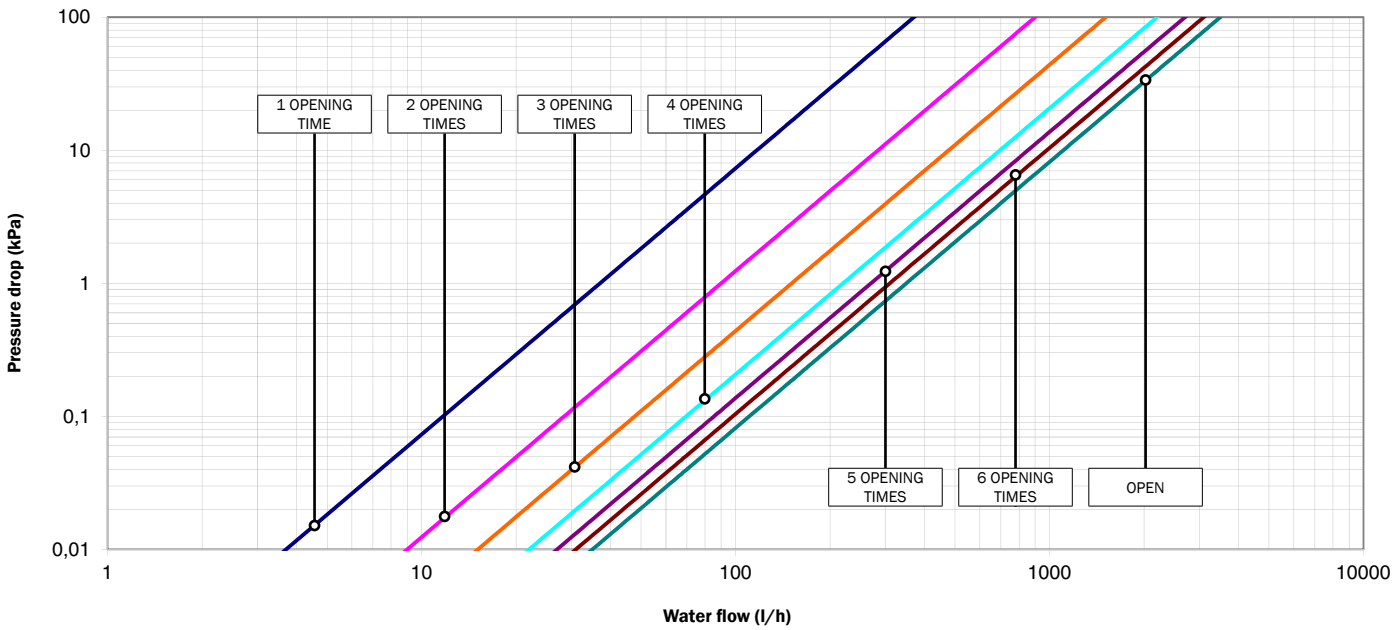


07_04_01_02

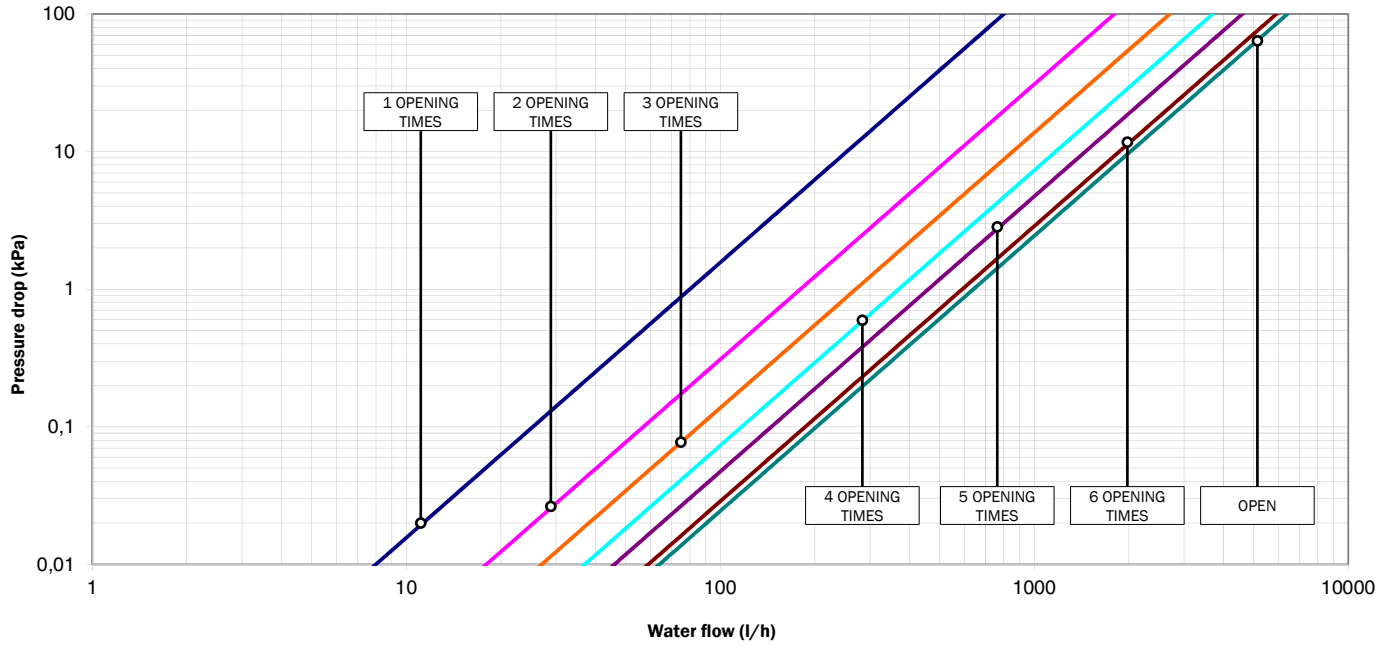
VALVES

SHUT OFF/BALANCING VALVE

Balancing valve 3/4" Kvs 3,5



Balancing valve 1" Kvs 6,4

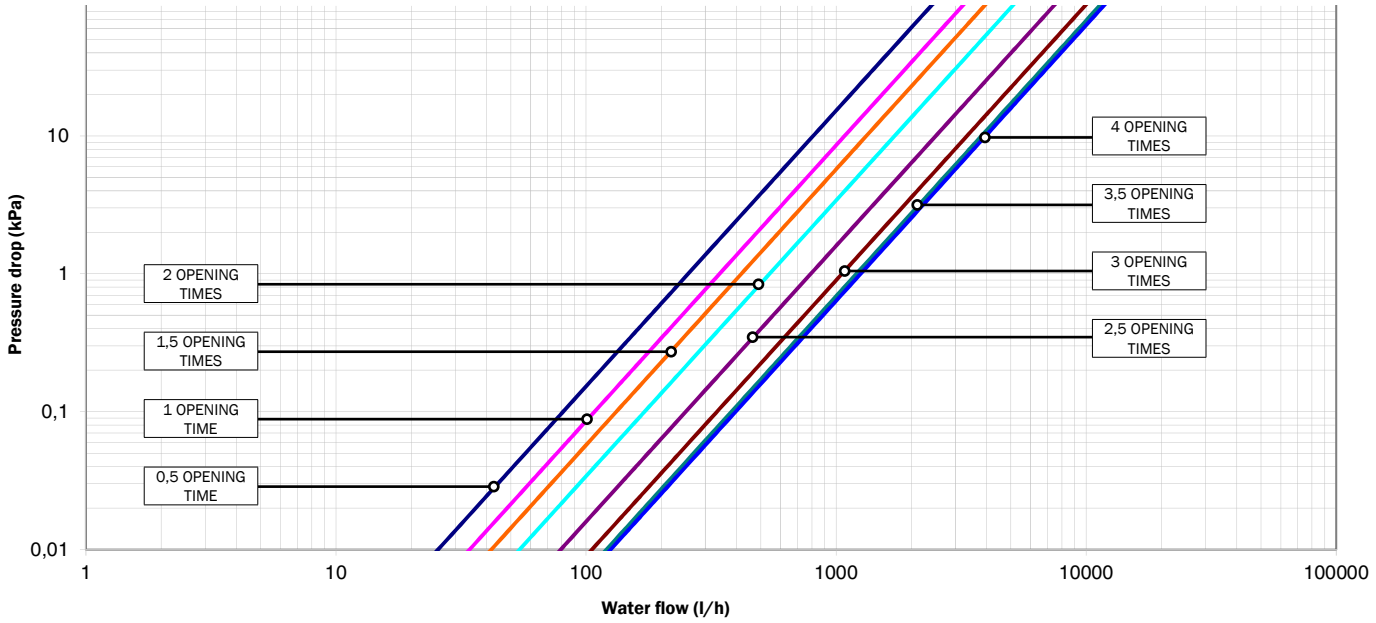


07_04_01_02

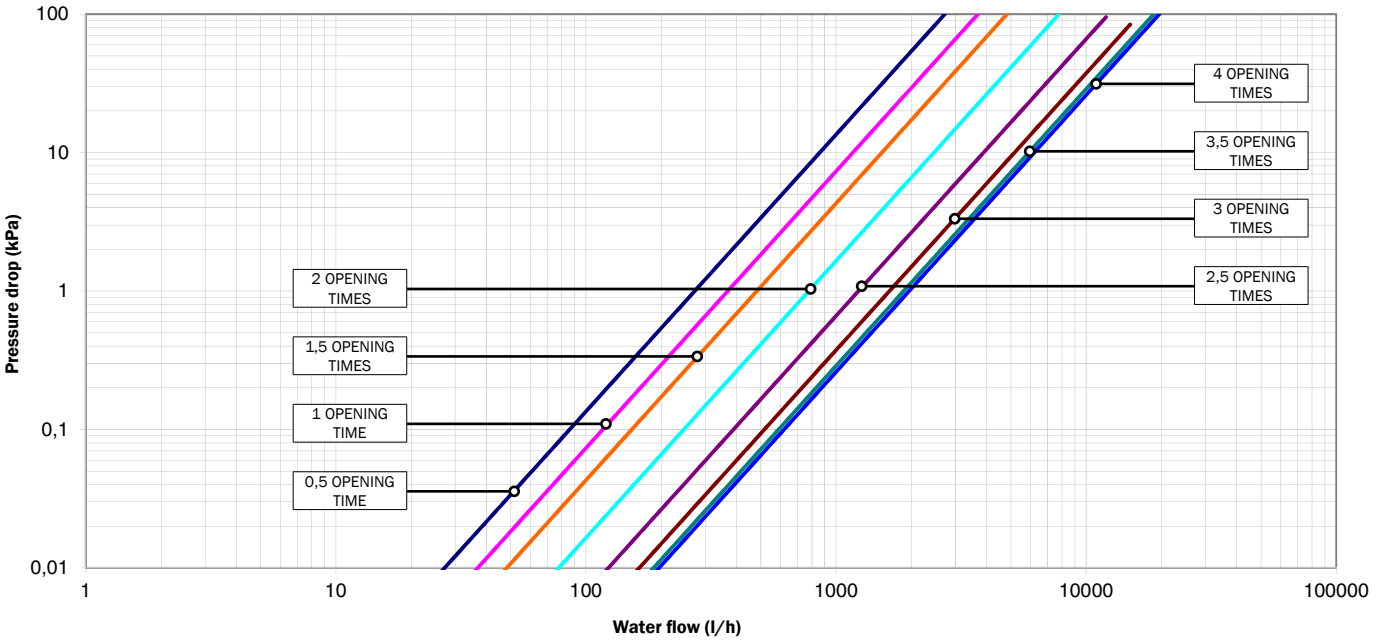
VALVES

SHUT OFF/BALANCING VALVE

Balancing valve 1” 1/4 Kvs 14,2

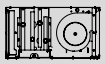


Balancing valve 1” 1/2 Kvs 19,2



ACCESSORIES

ACCESSORIES COMPATIBILITY

		UNITÀ *UNIT*	PAM	RAM	GAM	SRE	SRA	USG	SSP	SERRANDA ALLUMINIO *ALUMINIUM DAMPER*	BAM	GRIGLIA IN RIPRESA *INTAKE GRILL*	GRIGLIA IN MANDATA *SUPPLY GRILL*
	UNITÀ *UNIT*		✓	✓	✓	✓	✓	✓	✓	✓	✗	✗	✗
	PAM	✓		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	RAM	✓	✓		✓	✓	✓	✓	✓	✓	✓	✓	✓
	GAM	✓	✓	✓		✓	✓	✓	✓	✓	✓ ▭	✓ ▭	✓ ▭
	SRE	✓	✓	✓	✓		✗	✓	✗	✗	✓ ▭	✗	✗
	SRA	✓	✓	✓	✓	✓		✓	✗	✗	✓ ▭	✗	✓ ▭
	USG	✓	✓	✓	✓	✓	✓		✗	✗	✓ ▭	✗	✓ ▭
	SSP	✓	✓	✓	✓	✗	✗	✗		✗	✗	✓ ▭	✗
	SERRANDA ALLUMINIO *ALUMINIUM DAMPER*	✓	✓	✓	✓	✗	✗	✗	✗		✗	✓ ▭	✗
	BAM	✗	✓	✓	✓ ▭	✓ ▭	✓ ▭	✓ ▭	✗	✗		✗	✗
	GRIGLIA IN RIPRESA *INTAKE GRILL*	✗	✓	✓	✓ ▭	✗	✗	✗	✓ ▭	✓ ▭	✗		✗
	GRIGLIA IN MANDATA *SUPPLY GRILL*	✗	✓	✓	✓ ▭	✗	✓ ▭	✓ ▭	✗	✗	✗	✗	

✓ Compatibile *Compatible*

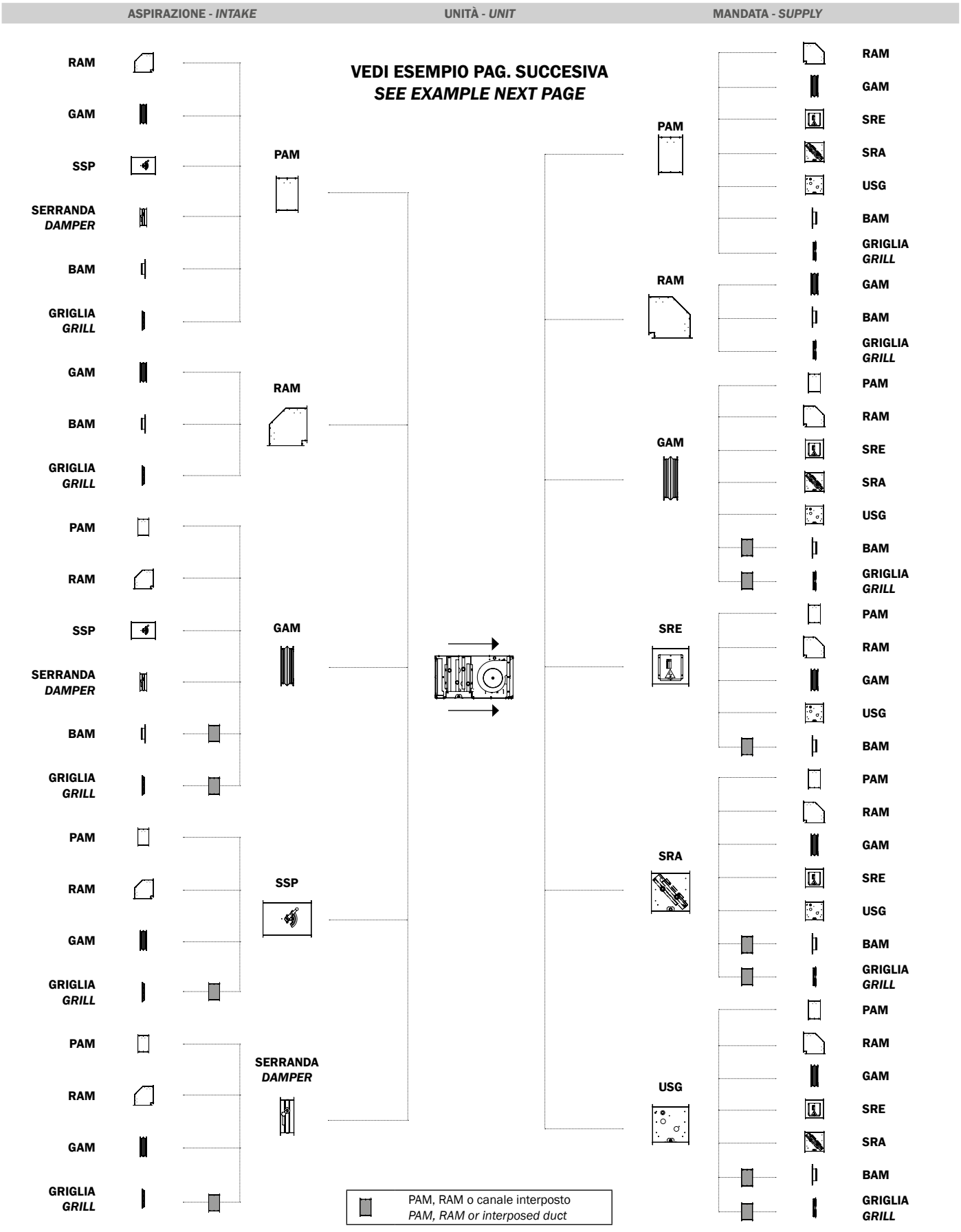
✗ Non compatibile *Not Compatible*

▭ Obbligatorio l'installazione di PAM, RAM o canale interposto *PAM, RAM or interposed duct required for installation*

07_04_01_02

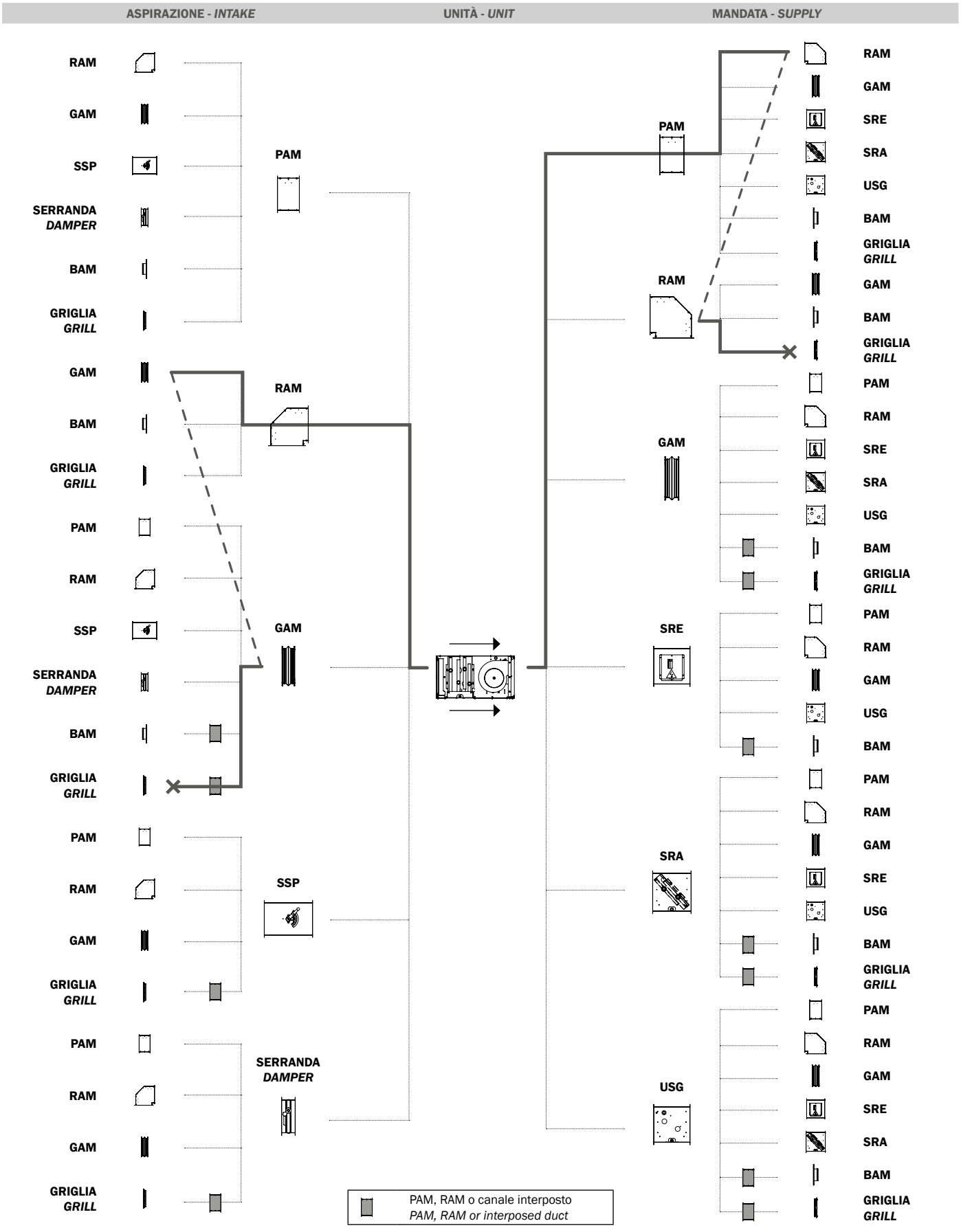
ACCESSORIES

ACCESSORIES COMPATIBILITY



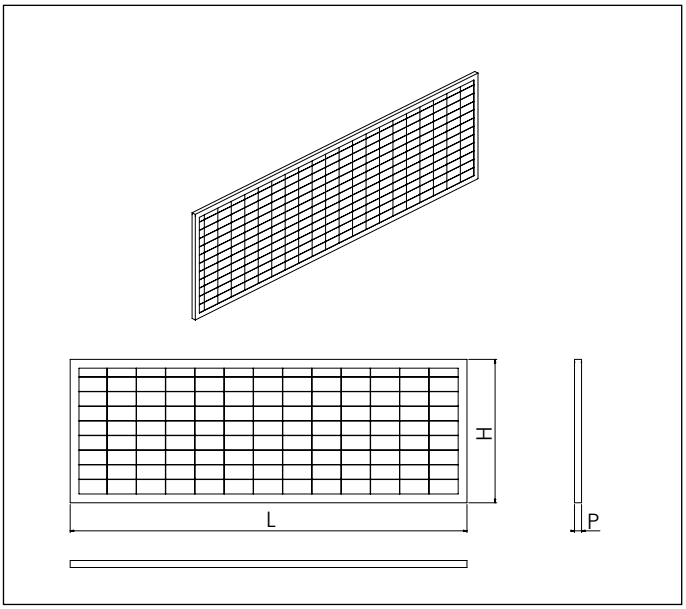
ACCESSORIES

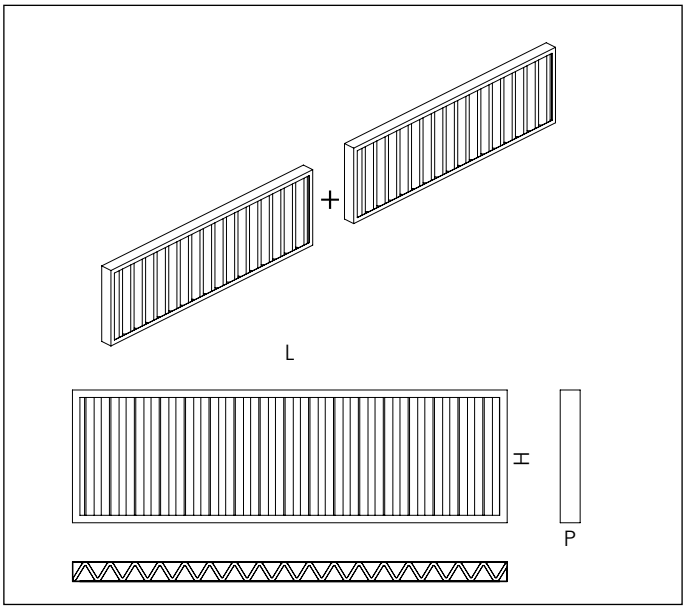
ACCESSORIES COMPATIBILITY



ACCESSORIES

AIR FILTER

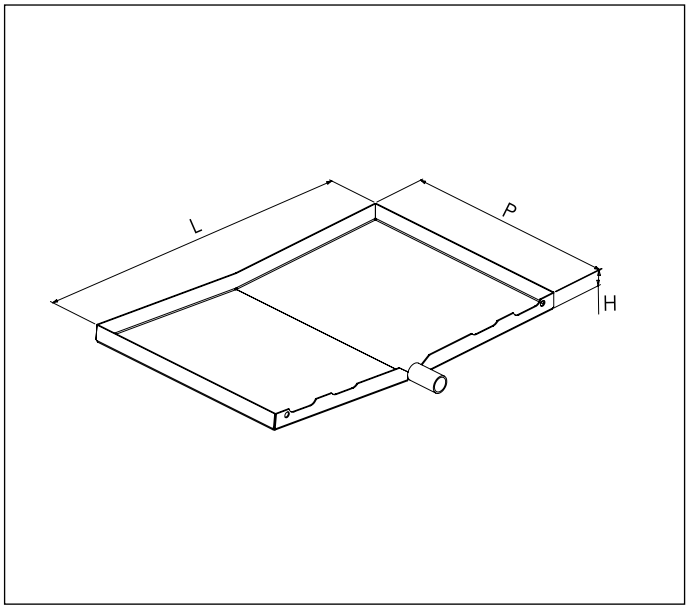


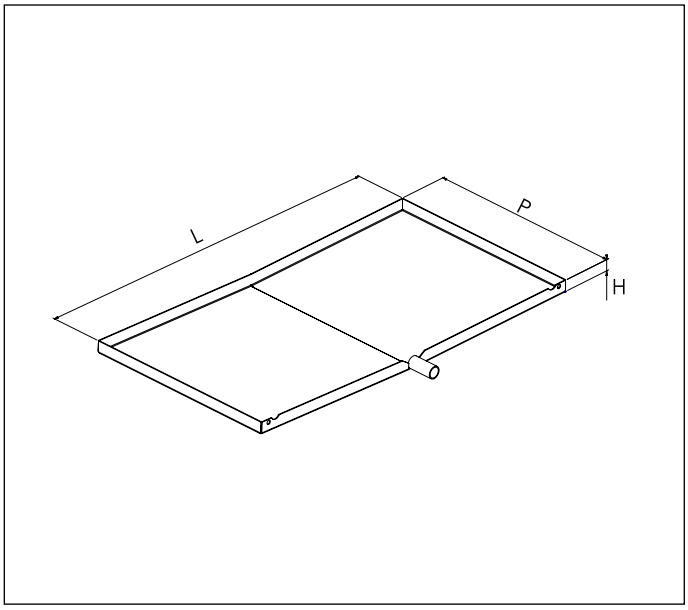


MOD.		1	2	3	4	5
L	mm	678	978	1178	1328	1428
H	mm	245	245	295	320	345
P	mm	12 G3 (STANDARD)				
	mm	25 G3 (ACCESSORY)				
	mm	48 G3 (ACCESSORY)				
	mm	48 G4 (ACCESSORY)				

MOD.		6	7
L	mm	1049 (x2)	1049 (x2)
H	mm	320	345
P	mm	12 G3 (NOT AVAILABLE)	
	mm	25 G3 (NOT AVAILABLE)	
	mm	48 G3 (STANDARD)	
	mm	48 G4 (ACCESSORY)	

AUXILIARY DRAIN PAN



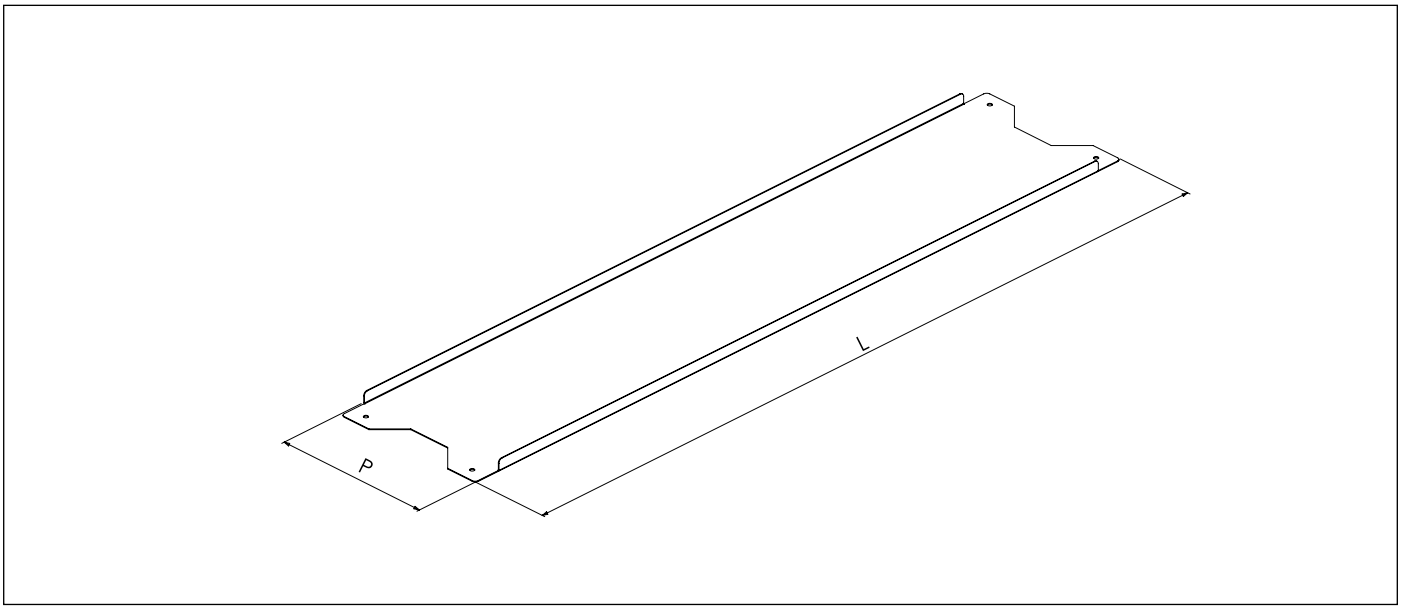


MOD.		1	2	3
L	mm	251	251	251
H	mm	12	12	12
P	mm	160	160	160

MOD.		4	5	6	7
L	mm	360	360	360	360
H	mm	12	12	12	12
P	mm	280	280	280	280

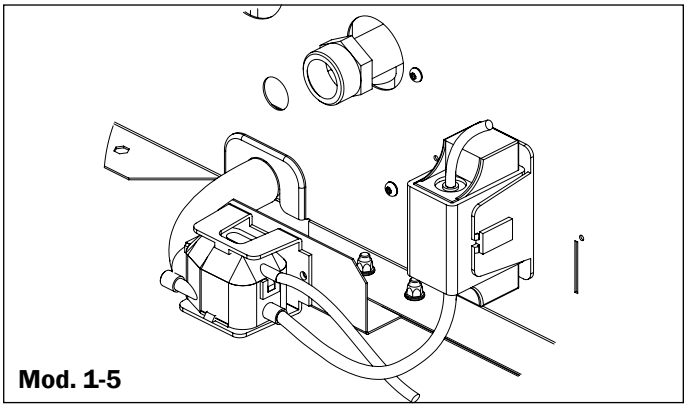
ACCESSORIES

CONDENSATE DRAIN PAN COVER PANEL (SUPPLY MOUNTED - SINGLE SKIN ONLY)



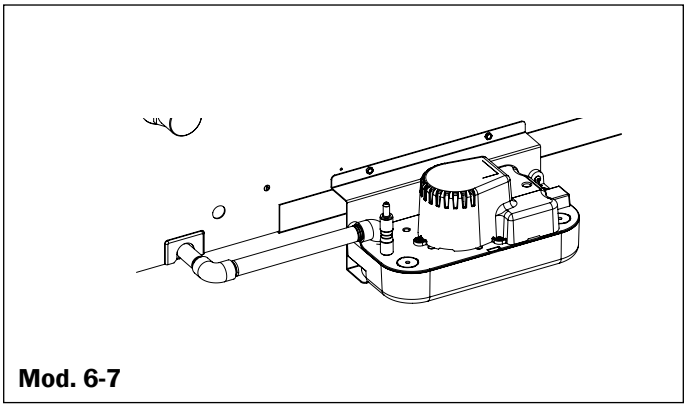
MOD.		1	2	3	4	5	6	7
L	mm	750	1050	1250	1400	1500	2170	2170
P	mm	220	220	220	220	220	220	220

CONDENSATE DRAIN PUMP (SUPPLY MOUNTED)



Mod. 1-5

Operating tension	230V/50Hz/10,8A
Max. water flow	8 liters/hour
Maximum intake	1 meter
Maximum head	6 meters
Alarm contact	NC 8 A resistive
Thermal protection (overheating)	90°C
Sound level	< 28 dB(A) a 1 m
Pump unit dimensions	L 66 x l 44 x h 60 mm
Detention dimensions	L 55 x l 38 x h 32 mm

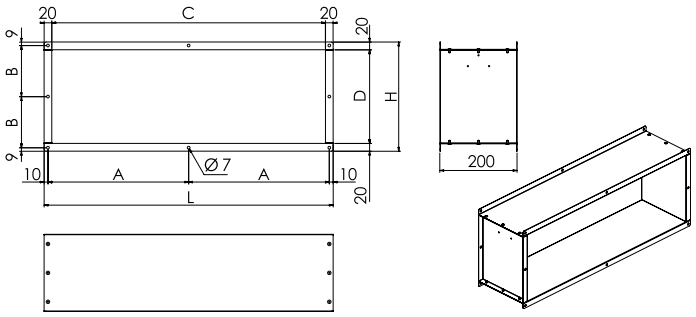


Mod. 6-7

Operating tension	230V/50Hz/10,8A
Max. water flow	150 liters/hour
Maximum intake	5,4 meters
Alarm contact	NC 4 A resistive
Thermal protection (overheating)	110°C
Sound level	< 34 dB(A) a 1 m
Pump unit dimensions	L 195 x l 130 x h 122 mm

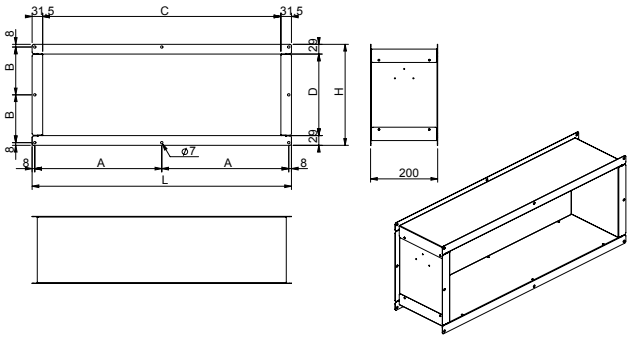
ACCESSORIES

PAM - STRAIGHT INTAKE/SUPPLY PLENUM (SINGLE SKIN)



MOD.		1	2	3	4	5	6	7
L	mm	750	1050	1250	1400	1500	2170	2170
H	mm	283	283	333	358	383	358	383
A	mm	365	515	615	690	740	717	717
B	mm	132,5	132,5	157,5	170	182,5	170	182,5
C	mm	710	1010	1210	1360	1460	2130	2130
D	mm	243	243	293	318	343	318	343

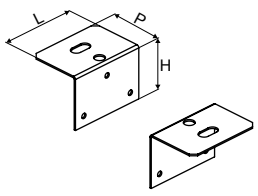
PAM - STRAIGHT INTAKE/SUPPLY PLENUM (DOUBLE SKIN)



MOD.		1	2	3	4	5	6	7
L	mm	773	1073	1273	1423	1523	2193	2193
H	mm	301	301	351	376	401	376	401
A	mm	378,5	528,5	628,5	703,5	753,5	726	726
B	mm	142,5	142,5	167,5	180	192,5	180	192,5
C	mm	710	1010	1210	1360	1460	2130	2130
D	mm	243	243	293	318	393	318	343

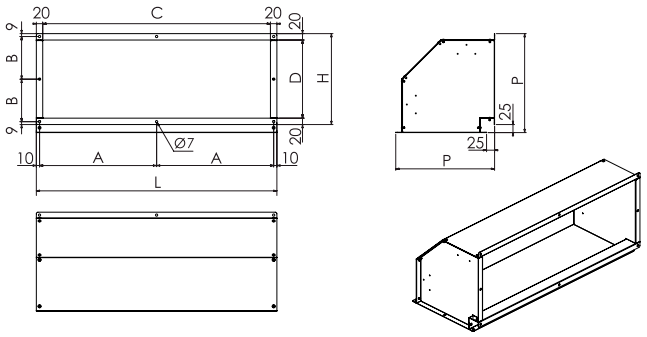
STRAIGHT INTAKE/SUPPLY PLENUM CEILING FIXING KIT

Dimensions (mm)		
L	H	P
75 mm	51,5 mm	51,5 mm



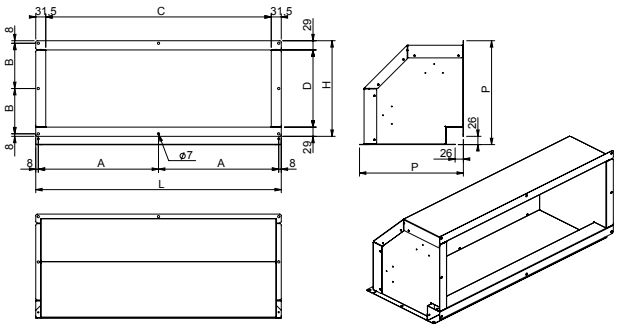
ACCESSORIES

RAM - 90° INTAKE/SUPPLY PLENUM (SINGLE SKIN)



MOD.		1	2	3	4	5	6	7
L	mm	750	1050	1250	1400	1500	2170	2170
H	mm	283	283	333	358	383	358	383
P	mm	308	308	358	383	408	383	408
A	mm	365	515	615	690	740	717	717
B	mm	132,5	132,5	157,5	170	182,5	170	182,5
C	mm	710	1010	1210	1360	1460	2130	2130
D	mm	243	243	293	318	343	318	343

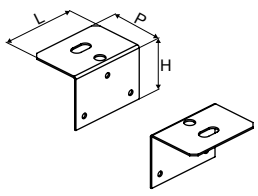
RAM - 90° INTAKE/SUPPLY PLENUM (DOUBLE SKIN)



MOD.		1	2	3	4	5	6	7
L	mm	773	1073	1273	1423	1523	2193	2193
H	mm	301	301	351	376	401	376	401
P	mm	327	327	377	402	427	402	427
A	mm	378,5	528,5	628,5	703,5	753,5	726	726
B	mm	142,5	142,5	167,5	180	192,5	180	192,5
C	mm	710	1010	1210	1360	1460	2130	2130
D	mm	243	243	293	318	343	318	343

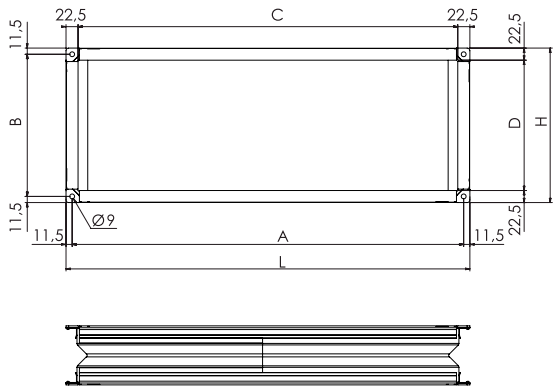
90° INTAKE/SUPPLY PLENUM CEILING FIXING KIT

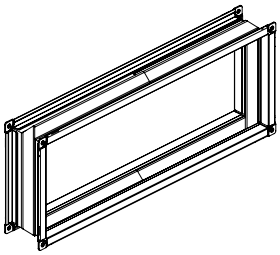
Dimensions (mm)		
L	H	P
75 mm	51,5 mm	51,5 mm



ACCESSORIES

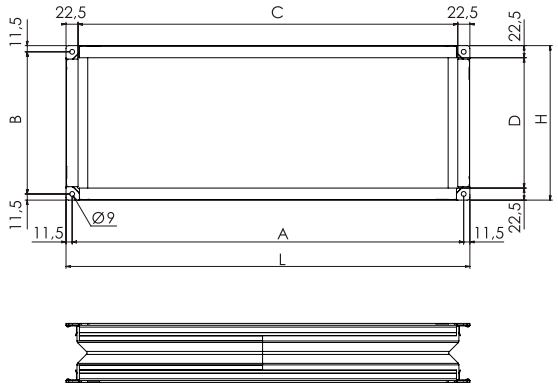
GAM - INTAKE/SUPPLY ANTIVIBRATING JOINT (SINGLE SKIN)

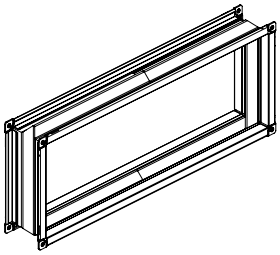




MOD.		1	2	3	4	5	6	7
L	mm	753	1053	1253	1403	1503	2173	2173
H	mm	288	288	338	363	388	363	388
A	mm	730	1030	1230	1380	1480	2150	2150
B	mm	265	265	315	340	365	340	365
C	mm	708	1008	1208	1358	1458	2128	2128
D	mm	243	243	293	318	343	318	343

GAM - INTAKE/SUPPLY ANTIVIBRATING JOINT (DOUBLE SKIN)

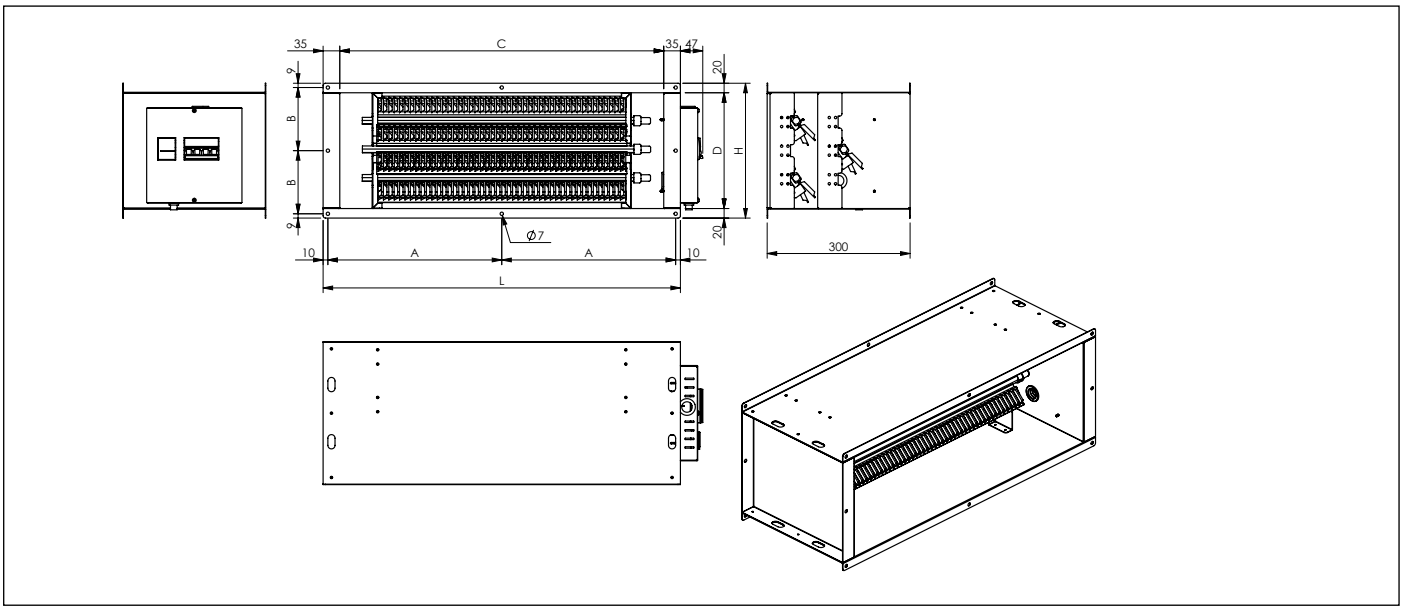




MOD.		1	2	3	4	5	6	7
L	mm	780	1080	1280	1430	1530	2200	2200
H	mm	308	308	358	383	408	383	408
A	mm	757	1057	1257	1407	1507	2177	2177
B	mm	285	285	335	360	385	360	385
C	mm	735	1035	1235	1385	1485	2155	2155
D	mm	263	263	313	338	363	338	363

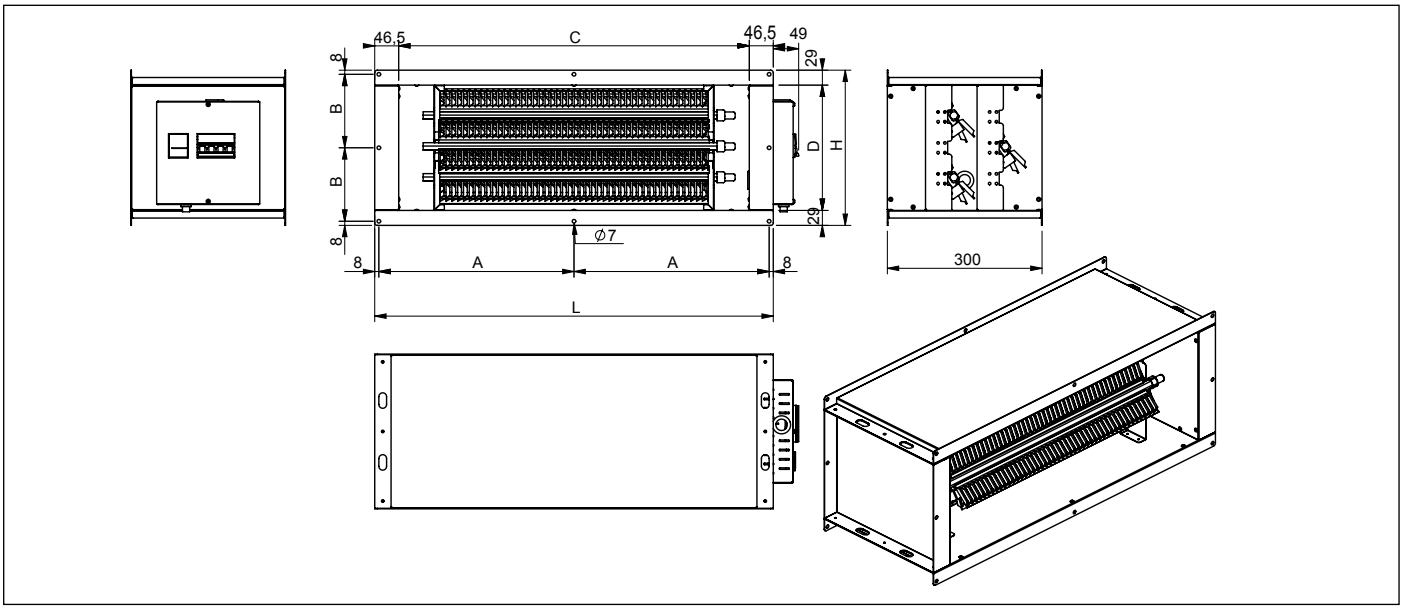
ACCESSORIES

SRE - HEATING SECTION WITH ELECTRIC HEATER (SINGLE SKIN)



MOD.		1	2	3	4	5	6	7
L	mm	750	1050	1250	1400	1500	2170	2170
H	mm	283	283	333	358	383	358	383
A	mm	365	515	615	690	740	717	717
B	mm	132,5	132,5	157,5	170	182,5	170	182,5
C	mm	680	980	1180	1330	1430	2100	2100
D	mm	243	243	293	318	343	318	343

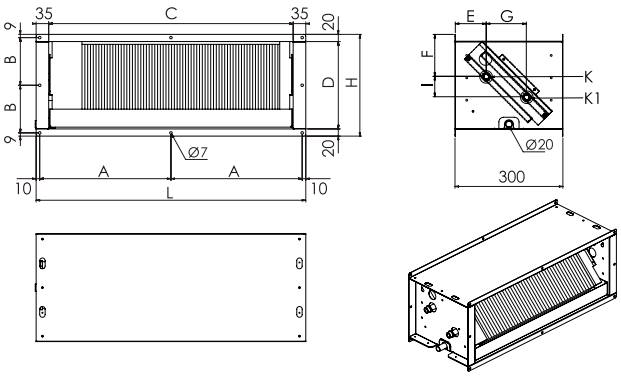
SRE - HEATING SECTION WITH ELECTRIC HEATER (DOUBLE SKIN)



MOD.		1	2	3	4	5	6	7
L	mm	773	1073	1273	1423	1523	2193	2493
H	mm	301	301	351	376	401	376	376
A	mm	378,5	528,5	628,5	703,5	753,5	716,5	716,5
B	mm	142,5	142,5	167,5	180	192,5	180	180
C	mm	680	980	1180	1330	1430	2100	2400
D	mm	243	243	293	318	393	318	318

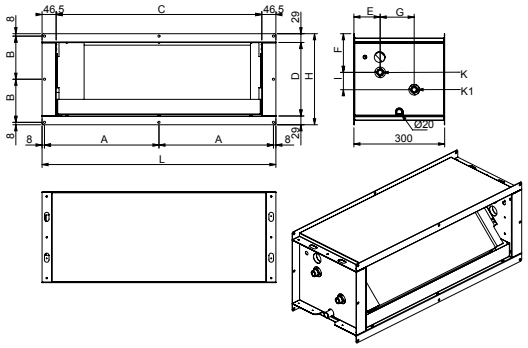
ACCESSORIES

SRA - RE-HEATING/COOLING SECTION WITH WATER COIL (SINGLE SKIN)



MOD.		1	2	3	4	5	6	7
L	mm	750	1050	1250	1400	1500	2170	2170
H	mm	283	283	333	358	383	358	383
A	mm	365	515	615	690	740	717	717
B	mm	132,5	132,5	157,5	170	182,5	170	182,5
C	mm	680	980	1180	1330	1430	2100	2100
D	mm	243	243	293	318	343	318	343
E	mm	87	87	88	90	92	90	92
F	mm	118	118	140	150	160	150	160
G	mm	112	112	109	107	103	107	103
I	mm	57	57	63	67	72	67	72
K - K1	ø male	1/2"	1/2"	3/4"	3/4"	1"	1"	1"

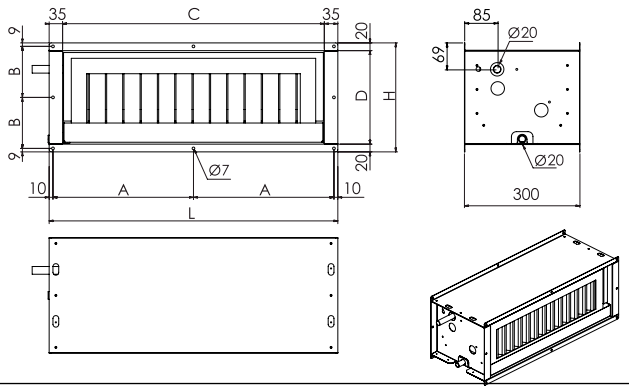
SRA - RE-HEATING/COOLING SECTION WITH WATER COIL (DOUBLE SKIN)



MOD.		1	2	3	4	5	6	7
L	mm	773	1073	1273	1423	1523	2193	2493
H	mm	301	301	351	376	401	376	376
A	mm	378,5	528,5	628,5	703,5	753,5	716,5	716,5
B	mm	142,5	142,5	167,5	180	192,5	180	180
C	mm	680	980	1180	1330	1430	2100	2400
D	mm	243	243	293	318	393	318	318
E	mm	87	87	88	90	92	90	92
F	mm	128	128	150	160	170	160	170
G	mm	112	112	109	107	103	107	103
I	mm	57	57	63	67	72	67	72
K - K1	ø male	1/2"	1/2"	3/4"	3/4"	1"	1"	1"

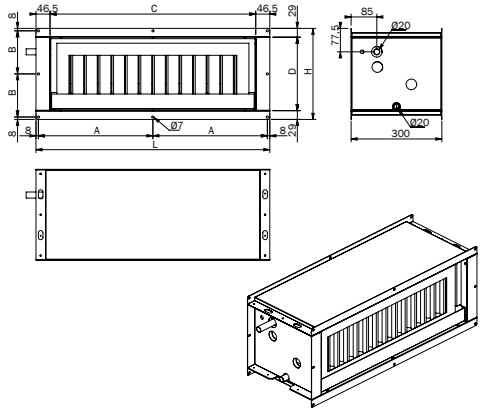
ACCESSORIES

USG - HUMIDIFICATION SECTION WITH DROP SEPARATOR (SINGLE SKIN)



MOD.		1	2	3	4	5	6	7
L	mm	750	1050	1250	1400	1500	2170	2170
H	mm	283	283	333	358	383	358	383
A	mm	365	515	615	690	740	717	717
B	mm	132,5	132,5	157,5	170	182,5	170	182,5
C	mm	680	980	1180	1330	1430	2100	2100
D	mm	243	243	293	318	343	318	343

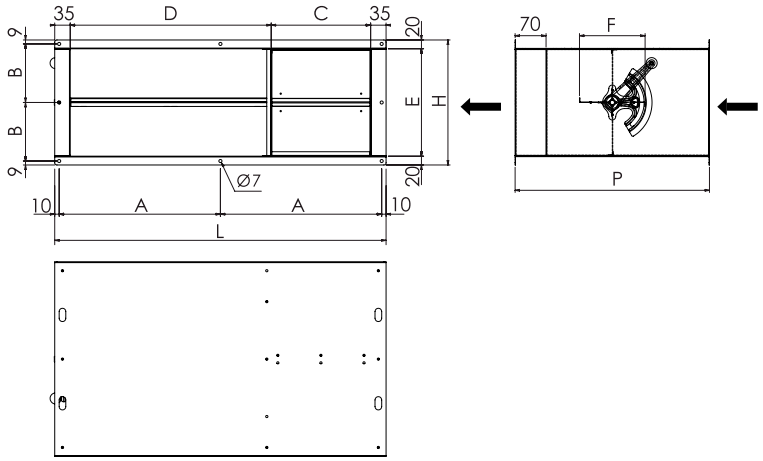
USG - HUMIDIFICATION SECTION WITH DROP SEPARATOR (DOUBLE SKIN)

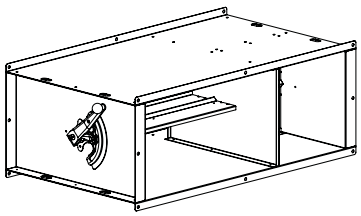


MOD.		1	2	3	4	5	6	7
L	mm	773	1073	1273	1423	1523	2193	2493
H	mm	301	301	351	376	401	376	376
A	mm	378,5	528,5	628,5	703,5	753,5	716,5	716,5
B	mm	142,5	142,5	167,5	180	192,5	180	180
C	mm	680	980	1180	1330	1430	2100	2400
D	mm	243	243	293	318	393	318	318

ACCESSORIES

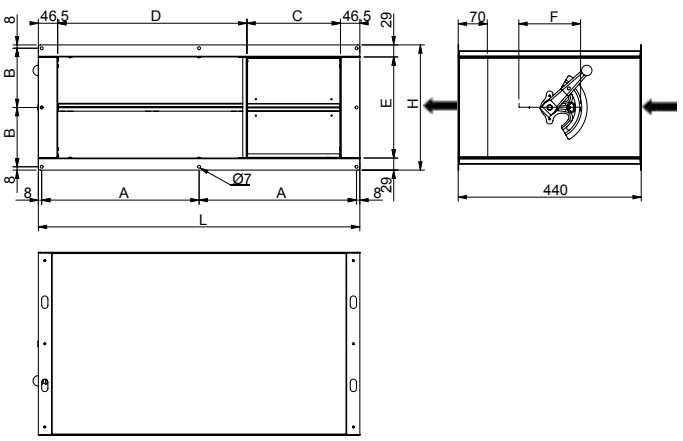
SSP - AIR LOWER SECTION (SINGLE SKIN)

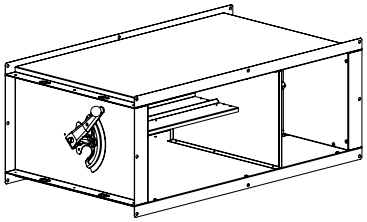




MOD.		1	2	3	4	5	6	7
L	mm	750	1050	1250	1400	1500	2170	2170
H	mm	283	283	333	358	383	358	383
A	mm	365	515	615	690	740	717	717
B	mm	132,5	132,5	157,5	170	182,5	170	182,5
C	mm	225	325	390	440	475	695	695
D	mm	455	655	790	890	955	1405	1405
E	mm	243	243	293	318	343	318	343
F	mm	148,5	148,5	173,5	183,5	198,5	183,5	198,5

SSP - AIR LOWER SECTION (DOUBLE SKIN)

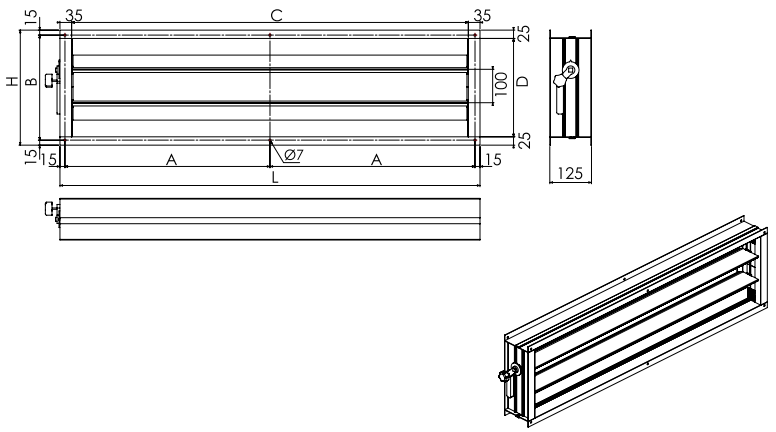




MOD.		1	2	3	4	5	6	7
L	mm	773	1073	1273	1423	1523	2193	2493
H	mm	301	301	351	376	401	376	376
A	mm	378,5	528,5	628,5	703,5	753,5	716,5	716,5
B	mm	142,5	142,5	167,5	180	192,5	180	180
C	mm	225	325	390	440	475	695	965
D	mm	455	655	790	890	955	1405	1405
E	mm	243	243	293	318	393	318	318
F	mm	148,5	148,5	173,5	183,5	198,5	183,5	198,5

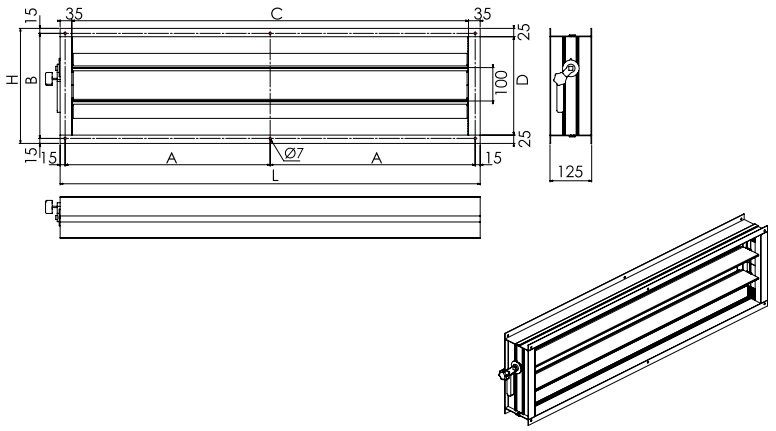
ACCESSORIES

ALUMINIUM DAMPER (SINGLE SKIN)



MOD.		1	2	3	4	5	6	7
L	mm	760	1060	1260	1410	1510	2180	2180
H	mm	295	295	345	370	395	370	395
A	mm	365	515	615	690	740	717	717
B	mm	265	265	315	340	365	340	365
C	mm	690	990	1190	1340	1440	2110	2110
D	mm	245	245	295	320	345	320	345

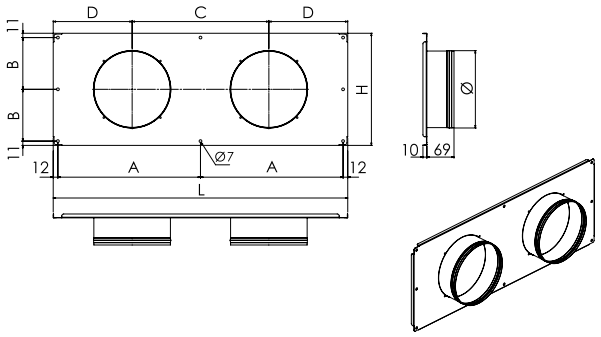
ALUMINIUM DAMPER (DOUBLE SKIN)



MOD.		1	2	3	4	5	6	7
L	mm	787	1087	1287	1437	1537	2207	2207
H	mm	315	315	365	390	415	390	415
A	mm	378,5	528,5	628,5	703,5	753,5	726	726
B	mm	285	285	335	360	385	360	385
C	mm	717	1017	1217	1367	1467	2137	2137
D	mm	265	265	315	340	365	340	365

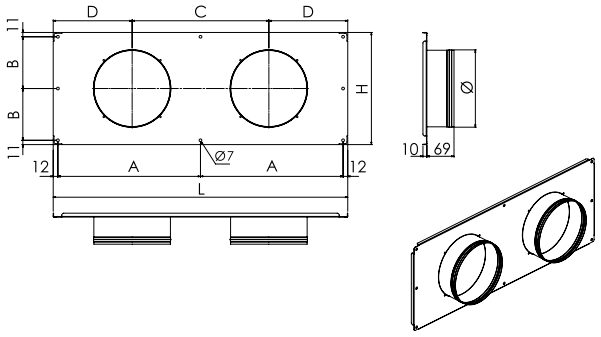
ACCESSORIES

BAM - SUPPLY SECTION WITH CIRCULAR SPIGOTS (SINGLE SKIN)



MOD.		1	2	3	4	5	6	7
L	mm	754	1054	1254	1404	1504	2174	2174
H	mm	287	287	337	362	387	362	387
A	mm	365	515	615	690	740	717	717
B	mm	132,5	132,5	157,5	170	182,5	170	182,5
C	mm	350	350	300	400	350	350	350
D	mm	202	177	177	302	227	212	212
Ø nominal		200	200	200	300	300	300	300
n° spigots		2	3	4	3	4	6	6

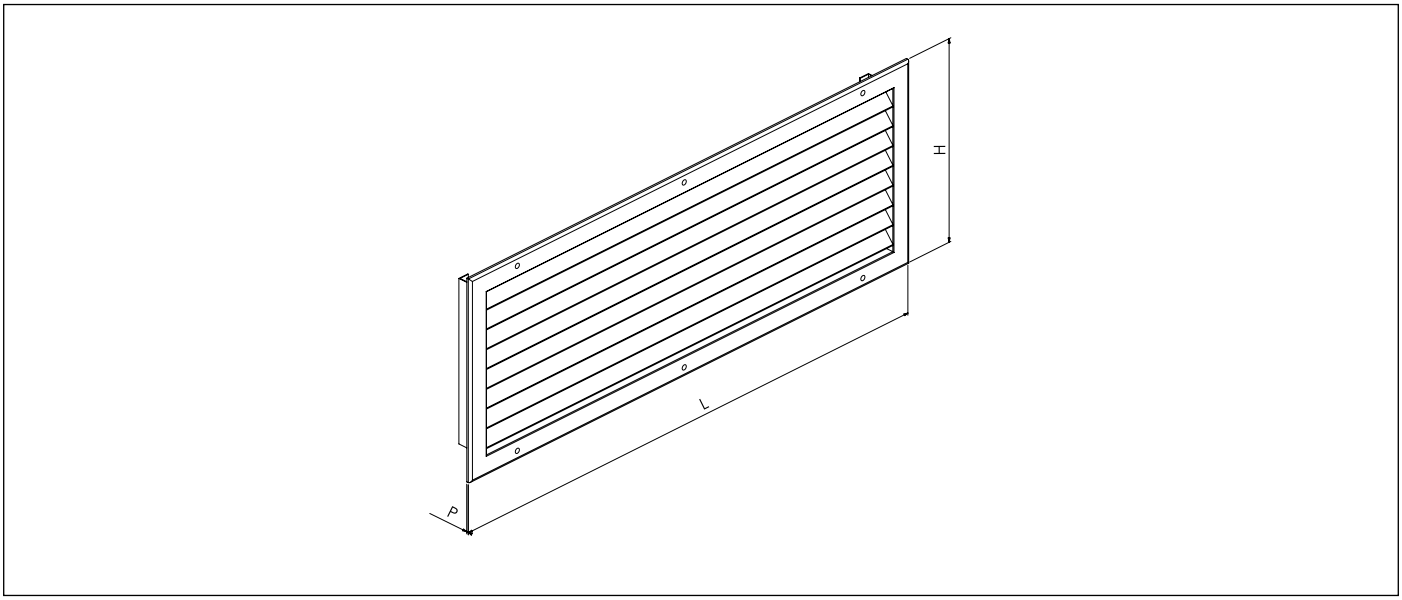
BAM - SUPPLY SECTION WITH CIRCULAR SPIGOTS (DOUBLE SKIN)



MOD.		1	2	3	4	5	6	7
L	mm	777	1077	1277	1427	1527	2197	2197
H	mm	305	305	355	380	405	380	405
A	mm	378,5	528,5	628,5	703,5	753,5	726	726
B	mm	142,5	142,5	167,5	180	192,5	180	192,5
C	mm	350	350	300	400	350	350	350
D	mm	213,5	188,5	188,5	313,5	227	223,5	223,5
Ø nominal		200	200	200	300	300	300	300
n° spigots		2	3	4	3	4	6	6

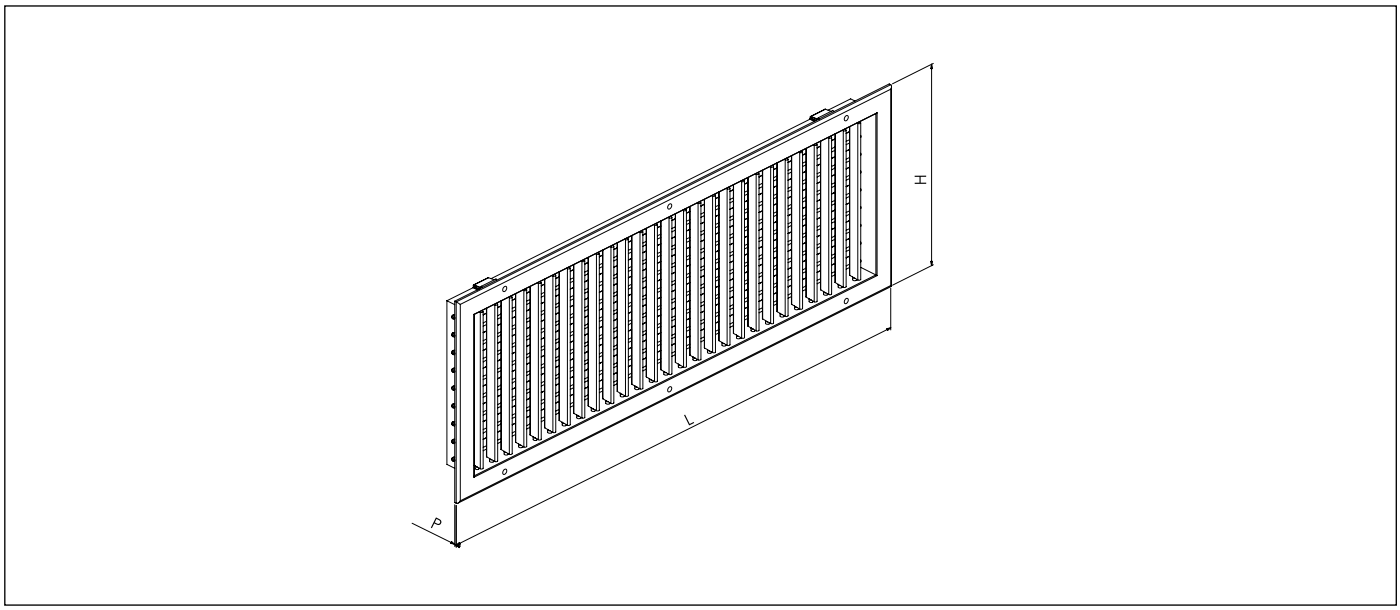
ACCESSORIES

FIX INTAKE GRILL WITH FILTER



MOD.		1	2	3	4	5	6	7
L	mm	742	1042	1242	1392	1492	2162	2162
H	mm	277	277	327	352	377	352	377
P	mm	6	6	6	6	6	6	6

ADJUSTABLE SUPPLY GRILL



MOD.		1	2	3	4	5	6	7
L	mm	742	1042	1242	1392	1492	2162	2162
H	mm	277	277	327	352	377	352	377
P	mm	6	6	6	6	6	6	6

ELECTRICAL WIRINGS

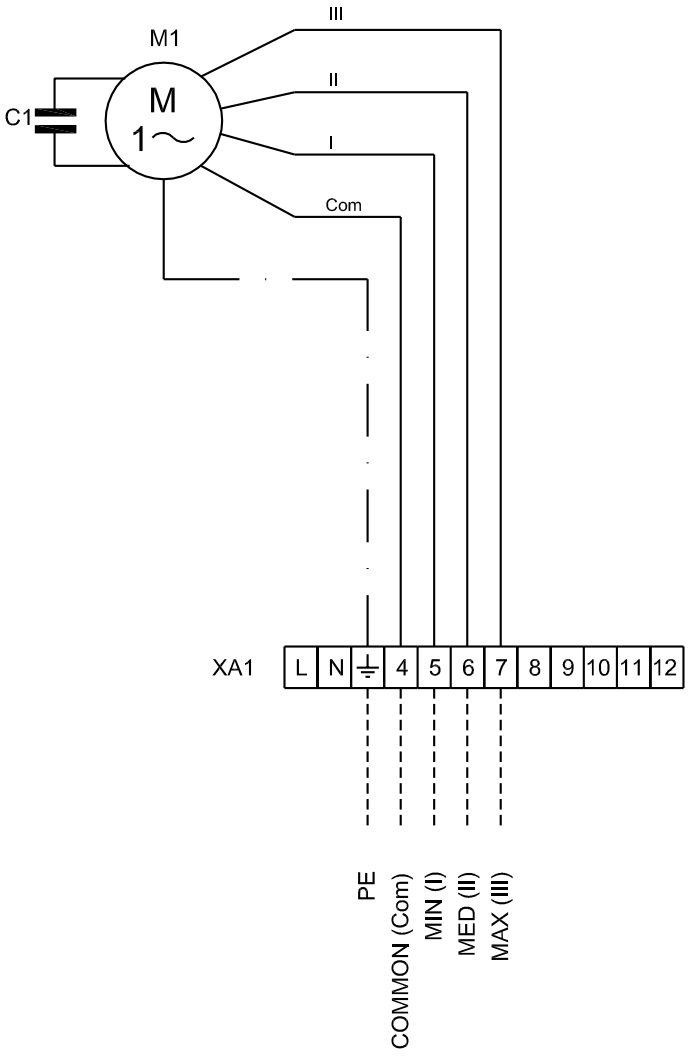
INTRODUCTION

WARNING!

THE WIRING DIAGRAMS SHOWN IN THIS DOCUMENT ARE INDICATIVE AS THEY REFER TO STANDARD UNITS ONLY AND MAY BE SLIGHTLY DIFFERENT DEPENDING FROM THE TYPE OF ACCESSORIES MATCHED TO THE UNIT. FOR THIS REASON, PLEASE, ALWAYS REFER TO THE WIRING DIAGRAM SUPPLIED WITH THE UNIT.

ELECTRICAL WIRINGS

(MOD. 1-3)



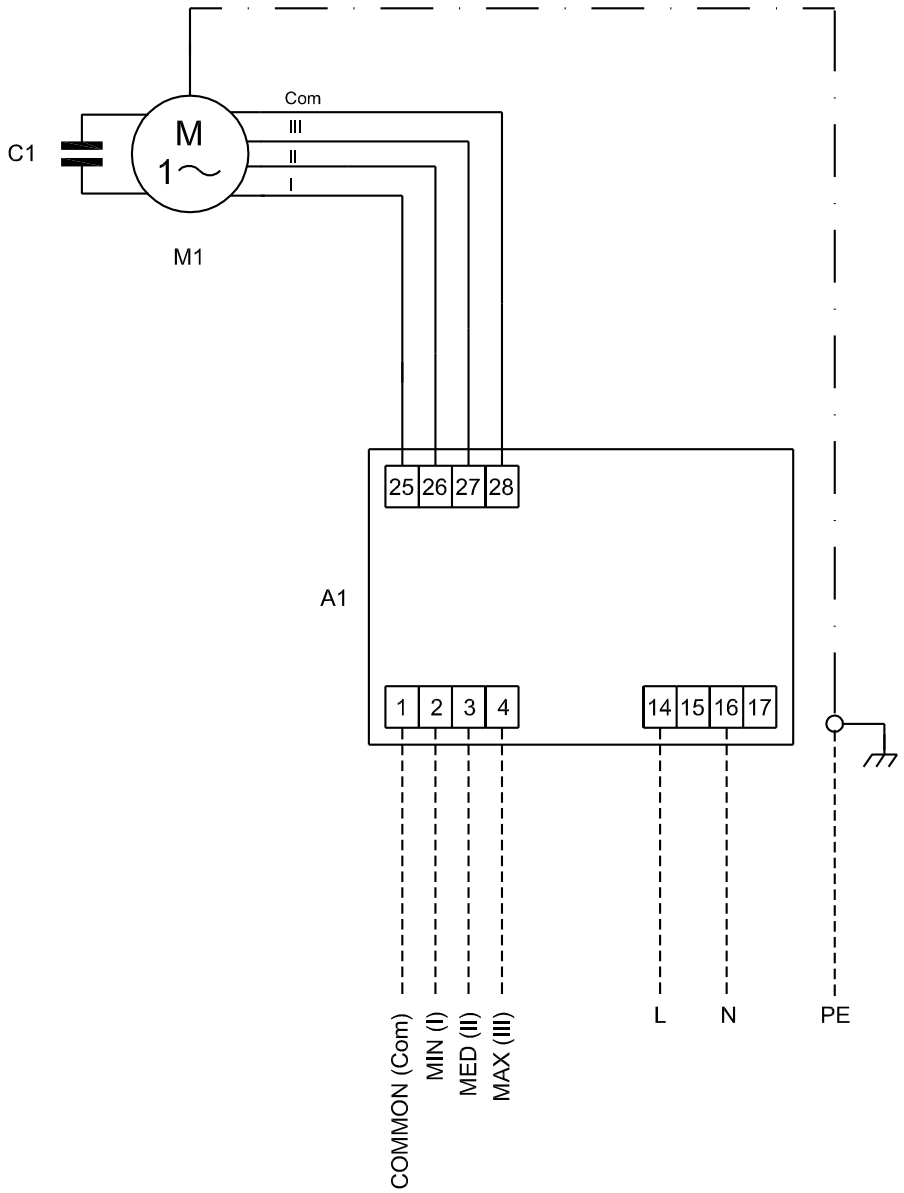
CONTROLLO VELOCITA' VENTILATORE
FAN SPEED CONTROL
230Vac/50Hz
5x1.5 mmq/sqmm

LEGENDA

PE	CONDUTTORE DI PROTEZIONE (giallo/verde) - GROUND PROTECTION (yellow
C1	CONDENSATORE - CAPACITOR
M1	MOTORE VENTILATORE - FAN MOTOR
XA1	MORSETTIERA - TERMINAL BOARD

ELECTRICAL WIRINGS

(MOD. 4-5)



CONTROLLO VELOCITA' VENTILATORE
FAN SPEED CONTROL
230Vac/50Hz
4x1.5 mmq/sqmm

ALIMENTAZIONE VENTILATORE (permanente)
FAN POWER SUPPLY (permanent)
230Vac/50Hz
3x1.5 mmq/sqmm

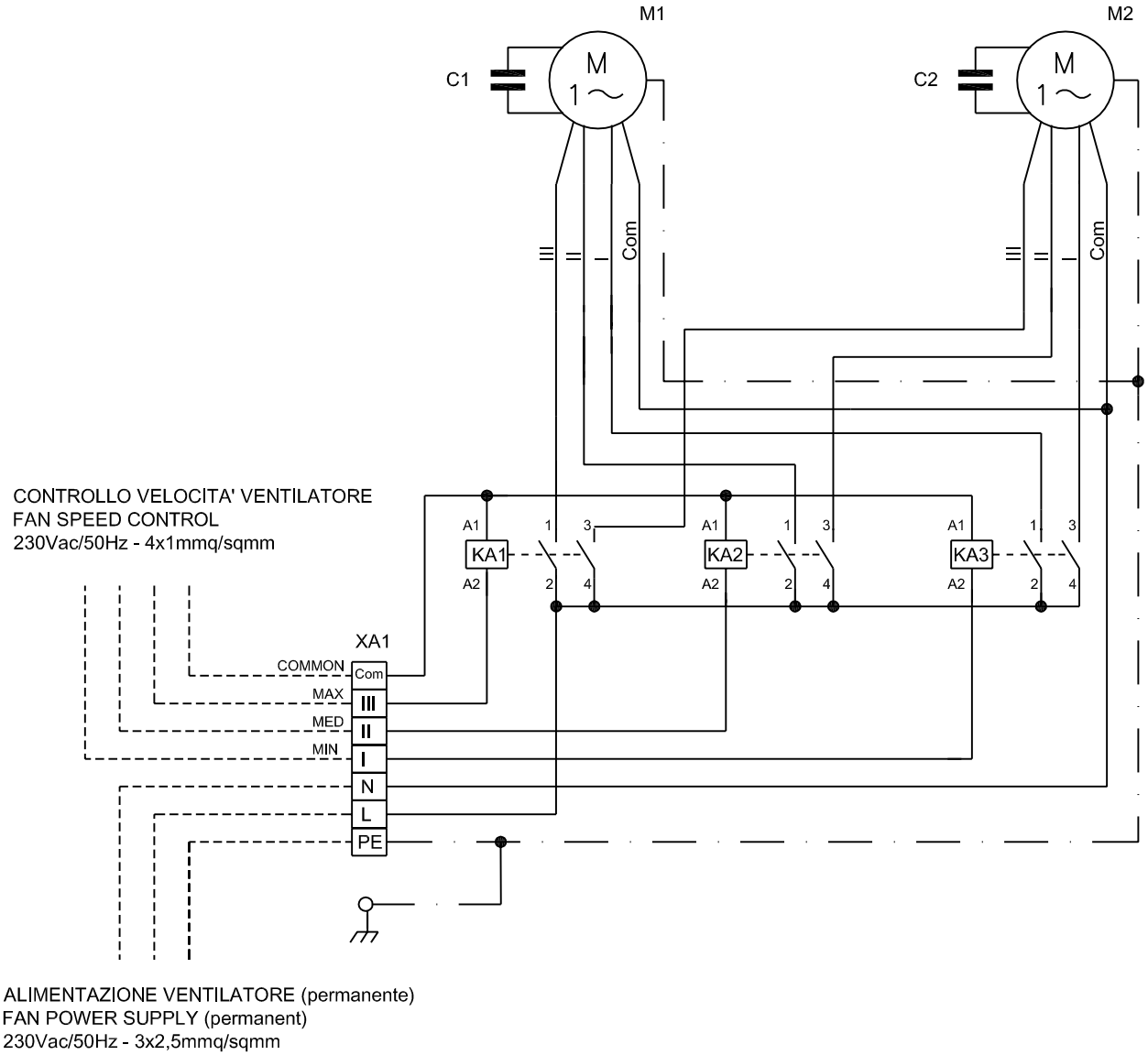
LEGENDA

PE	CONDUTTORE DI PROTEZIONE (giallo/verde) - GROUND PROTECTION (yellow/green)
L	FASE - PHASE
N	NEUTRO - NEUTRAL
A1	SCHEDA DI POTENZA - POWER BOARD
C1	CONDENSATORE - CAPACITOR
M1	MOTORE VENTILATORE - FAN MOTOR

07_04_01_02

ELECTRICAL WIRINGS

(MOD. 6-7)

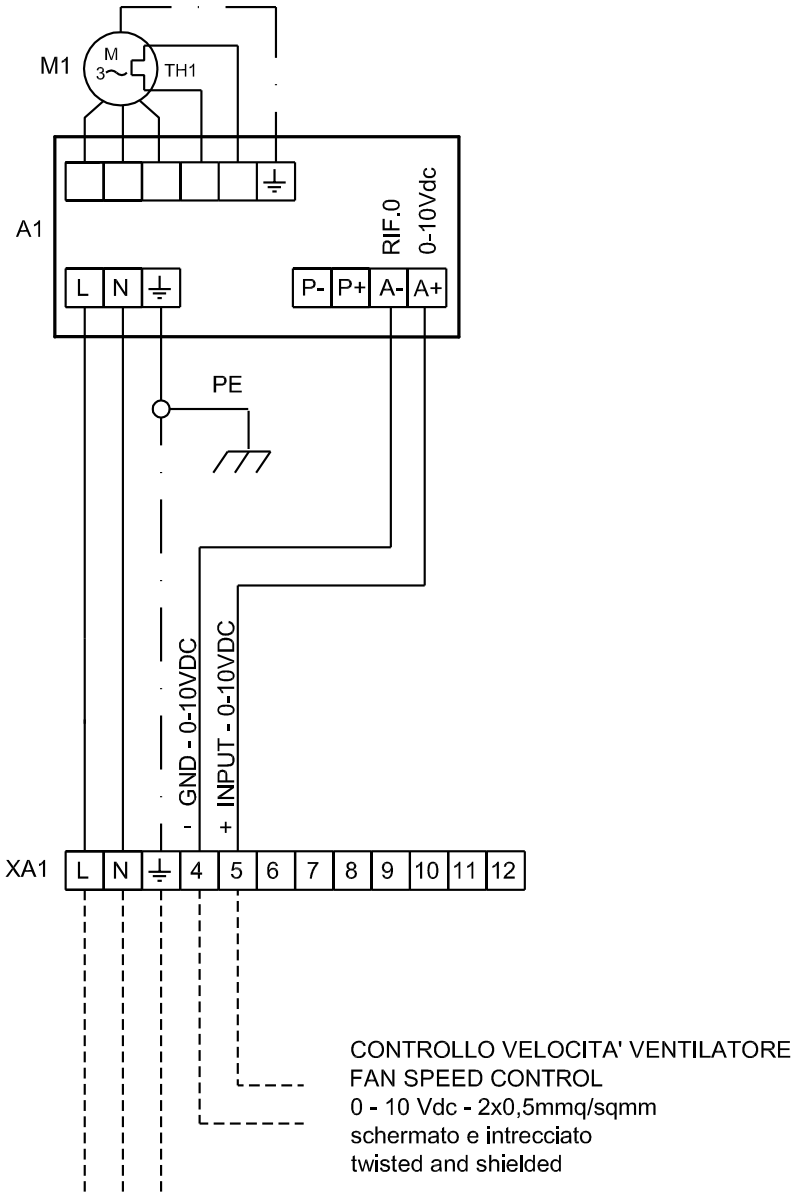


LEGENDA

PE	CONDUTTORE DI PROTEZIONE (giallo/verde) - GROUND PROTECTION (yellow/green)
L	FASE - PHASE
N	NEUTRO - NEUTRAL
KA1-2-3	RELE' - RELAYS
XA1	MORSETTIERA - TERMINAL BOARD
C1-2	CONDENSATORI - CAPACITOR
M1-2	MOTORE VENTILATORE - FAN MOTOR

ELECTRICAL WIRINGS

(MOD. ECM 4-5)



ALIMENTAZIONE ELETTRICA PERMANENTE
PERMANENT POWER SUPPLY
230Vac/50Hz - 3x1mmq/sqmm

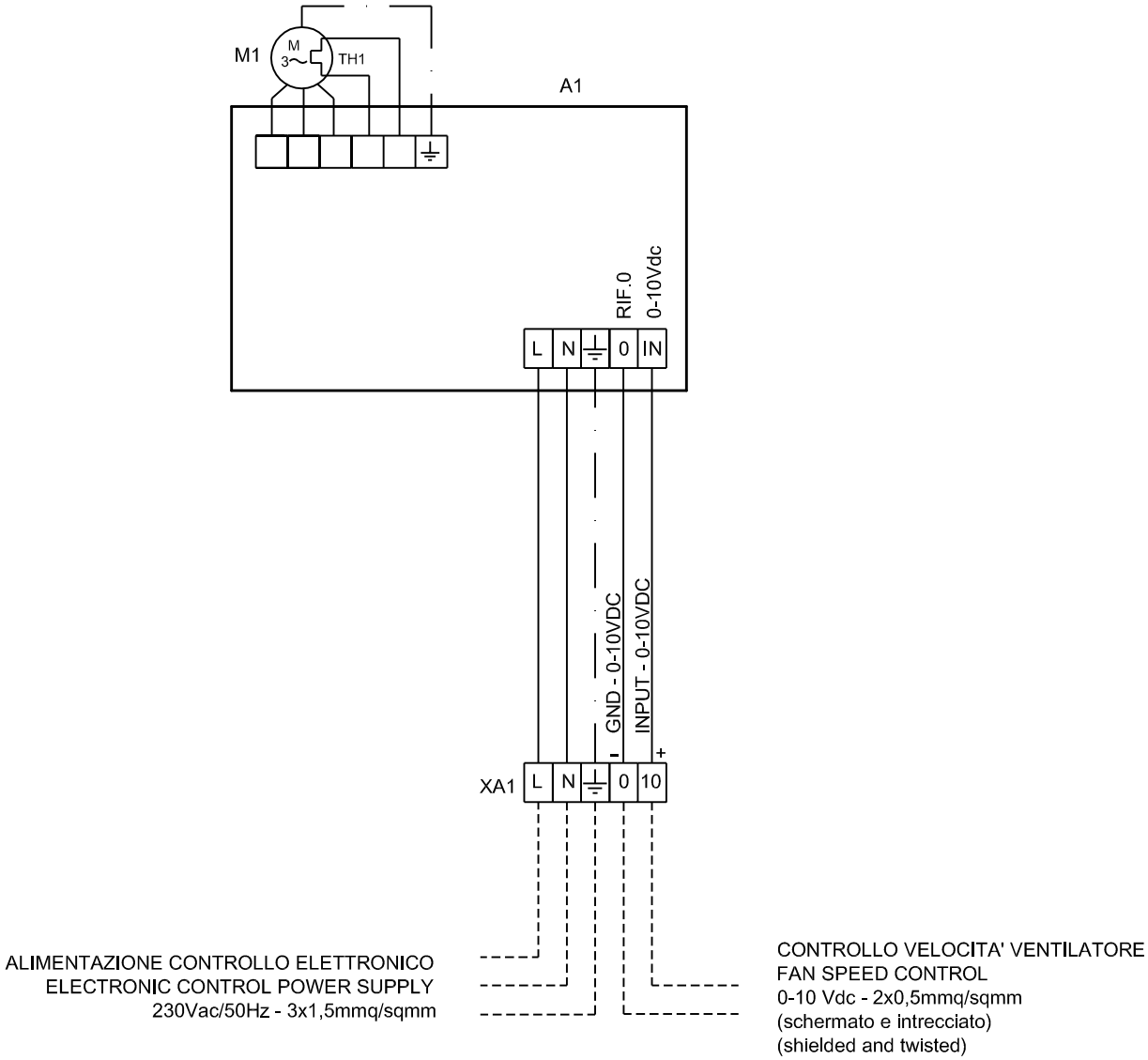
07_04_01_02

LEGENDA

PE	CONDUTTORE DI PROTEZIONE (giallo/verde) - GROUND PROTECTION (yellow/green)
L	FASE - PHASE
N	NEUTRO - NEUTRAL
XA1	MORSETTIERA - TERMINAL BOARD
A1	CONTROLLO ELETTRONICO - ELECTRONIC CONTROL
M1	MOTORE VENTILATORE - FAN MOTOR
TH1	PROTETTORE TERMICO - THERMAL PROTECTION

ELECTRICAL WIRINGS

(MOD. ECM 4-5)

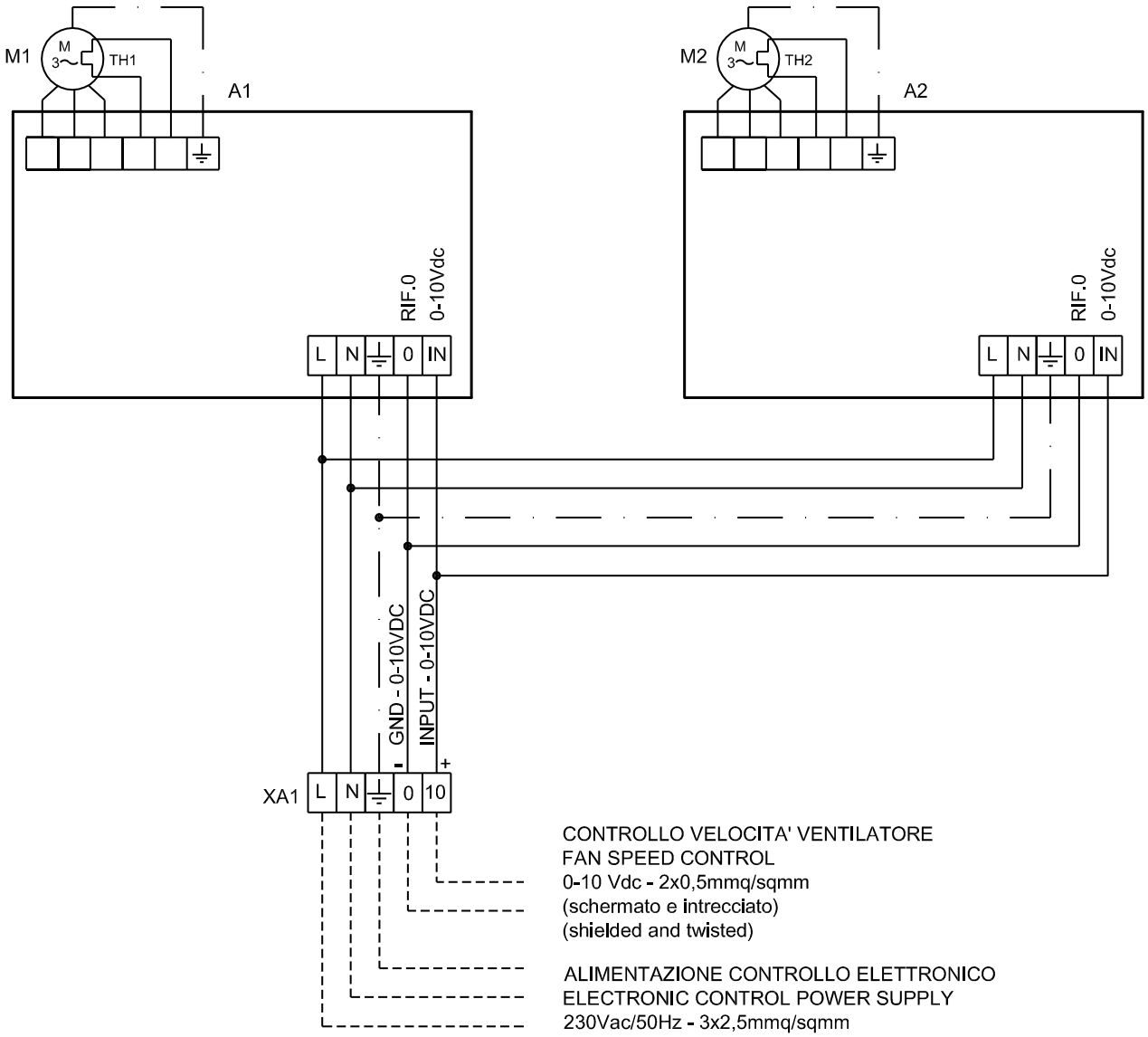


LEGENDA

PE	CONDUTTORE DI PROTEZIONE (giallo/verde) - GROUND PROTECTION (yellow/green)
L	FASE - PHASE
N	NEUTRO - NEUTRAL
XA1	MORSETTIERA - TERMINAL BOARD
A1	CONTROLLO ELETTRONICO - ELECTRONIC CONTROL
M1	MOTORE VENTILATORE - FAN MOTOR
TH1	PROTETTORE TERMICO - THERMAL PROTECTION

ELECTRICAL WIRINGS

(MOD. ECM 6-7)



LEGENDA

PE	CONDUTTORE DI PROTEZIONE (giallo/verde) - GROUND PROTECTION (yellow/green)
L	FASE - PHASE
N	NEUTRO - NEUTRAL
XA1	MORSETTIERA - TERMINAL BOARD
A1-2	CONTROLLO ELETTRONICO - ELECTRONIC CONTROL
M1-2	MOTORE VENTILATORE - FAN MOTOR
TH1-2	PROTETTORE TERMICO - THERMAL PROTECTION

ELECTRICAL PART

INTERFACE CARD SDP

GENERALITY

The fan coil power interface is equipped with a din rail connection and three outputs to drive a three-speed motor.
The control signals coming from a fan coil thermostat each drive a relay, which in turn controls the individual speed of the motor connected to it. The interface allows the thermostat to which it is connected to drive a 16A, 250V ~ motor.

TECHNICAL SPECIFICATIONS:

Power supply:		230V~ -15% +10% 50Hz
Contact capacity:		16 A @ 250V~
Monophase motor capacity:		1/2HP
Nominal current:		16A
Nominal voltage:		250V~
Grado di protezione:		IP 30
Operating temp.:		0°C .. 40°C
Storage temp.:		-10°C .. +50°C
Limit of humidity:		10% .. 80% rH (non-condensing)
Enclosure:	Material:	ABS self-extinguishing V0
	Color:	signal white (RAL 9003)
Dimensions:		105 x 90 x 70 (L x A x P)
Weight:		~ 316 gr.

PAIRING UP INTERFACE BOARD AND THE UNIT

WARNING:

Refer to the table below to order the power board according to the regulation

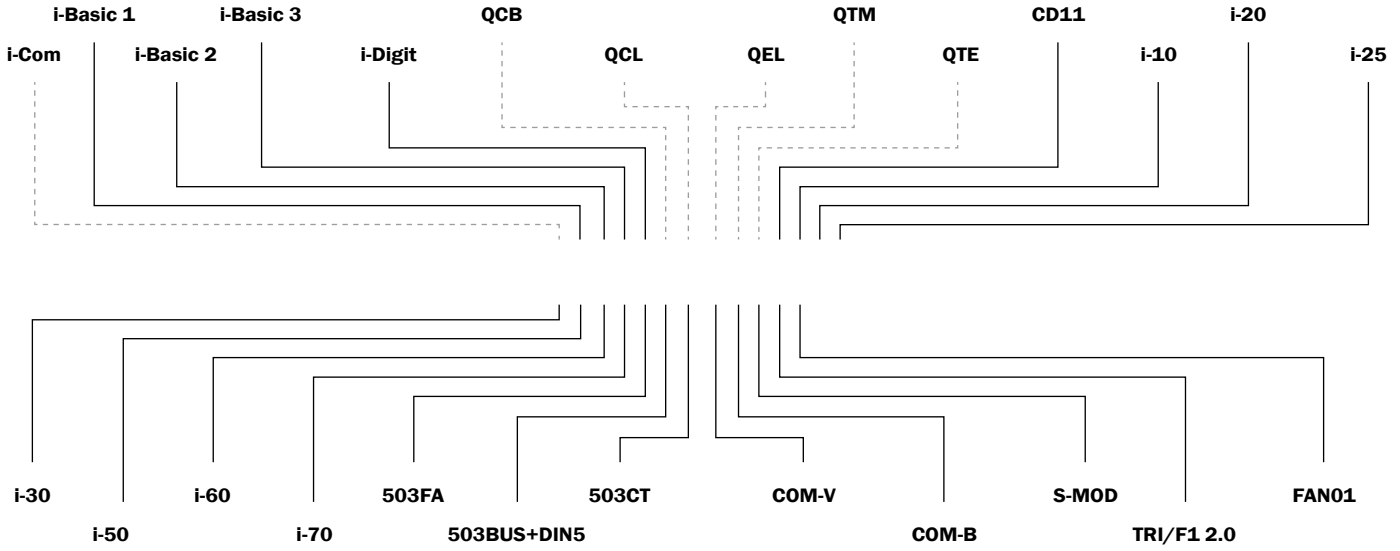
SCHEDA DI POTENZA PER CONTROLLO A 3 VELOCITÀ *POWER CHART FOR 3-SPEED CONTROL*	i-Com	i-Basic 1	i-Basic 2	i-Basic 3	i-Digit	TRI/F1 2.0	CD11	i-10	i-20	i-25	i-30	i-50	i-60	i-70	503FA	503BUS+DIN5	COM-V	COM-B	S-MOD	FAN01
MOD. 10	-	-	○	○	○	-	-	-	-	-	○	○	○	○	○	-	○	○	○	-
MOD. 20	-	-	○	○	○	-	-	-	-	-	○	○	○	○	○	-	○	○	○	-
MOD. 30	-	○	○	○	○	○	-	-	-	-	○	○	○	○	○	○	○	○	○	○
MOD. 40	-	○	○	○	○	○	-	-	-	-	○	○	○	○	○	○	○	○	○	○
MOD. 50	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
MOD. 60	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
MOD. 70	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●

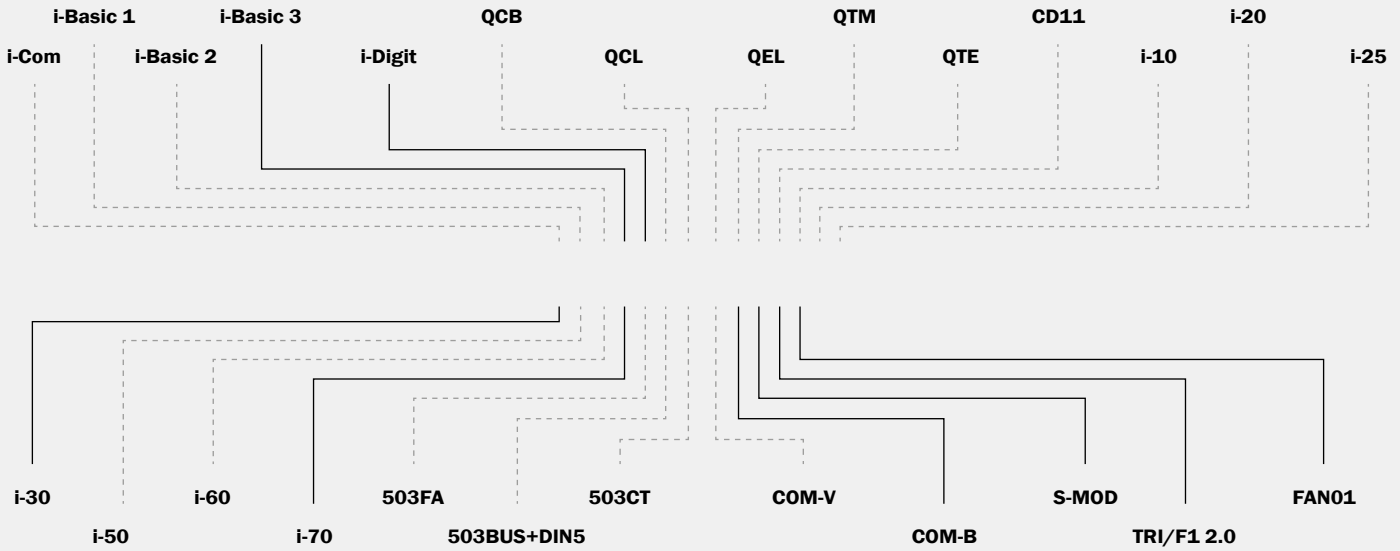
\- Non necessaria *Not necessary*
● Necessaria (inclusa di serie) *Necessary (included as standard)*
○ Necessaria (non inclusa) *Necessary (not included)*

07_04_01_02

CONTROLLERS

CONTROLLERS COMPATIBILITY





07_04_01_02

CONTROLLERS

REGOLATORI - *CONTROLLERS*	i-Com	i-Basic 1	i-Basic 2	i-Basic 3	i-Digit	QCB	QCL	QEL	QTM	QTE	TC	Termostato di consenso a bracciale *Water low temperature strap fastening thermostat*	37T	TRI/F1	TRI/F1 2.0	CD11	i-10	i-20	i-25
COMPATIBILITÀ - *COMPATIBILITY*																			
Installazione a parete - *Wall installation*		●	●	●	●											●	●	●	●
Installazione a bordo unità - *On board unit installation*											●	●	●		●				
Installazione a incasso 503 - *Flush installation box 503*																			
UTILIZZO - *USE*																			
Impianto a 2 tubi - *2 pipe system*	●	●	●	●	●						●	●	●		●	●	●	●	
Impianto a 4 tubi - *4 pipe system*	●	●	●	●	●						●	●			●	●	●		●
CONTROLLI E DISPLAY - *CONTROLS & DISPLAY*																			
Display - *Display*					●										●				
Acceso/Spento - *On/Off*	●	●	●	●	●										●	●	●	●	●
Caldo/Freddo - *Heat/Cool*	●	●	●	●	●										●	●	●		
3 velocità ventilatore - *3 fan speed*	●	●	●	●	●										●	●	●	●	●
Regolazione temperatura - *Set point range*		●	●	●	●										●		●	●	●
COMMUTAZIONE - *CHANGEOVER*																			
Velocità automatica - *Automatic speed control*				●	●										●				
Caldo/freddo centralizzata - *Central season changeover*			●	●	●													●	
Caldo/freddo automatico (impianto 2 tubi) Automatic season changeover (2 pipe system)			●	●	●								●		●			37T	
Caldo/freddo automatico con zona neutra (impianto 4 tubi) *Automatic season changeover with neutral zone (4 pipe system)*			●	●	●										●				●
INGRESSI - *INPUTS*																			
Sonda aria remota - *Remote air intake sensor*		●	●	●	●										●		●	●	●
Sonda acqua - *Water sensor*			●	●	●										●				
Termostato di consenso TC - TC *low temperature thermostat*	●	●														●	●		
Contatto finestra - *Windows contact*			●	●	●										●				
USCITE - *OUTPUTS*																			
Valvole On/Off - *On/Off valves*	●	●	●	●	●										●		●	●	●
Valvole 3 punti (PWM) - *Floating valves (PWM)*			○	○	○														
Valvole 0-10V - *0-10V proportional valves*				●	●														
FUNZIONI SPECIALI - *SPECIAL FUNCTIONS*																			
Ventilatore termostatato - *Fan thermostat controlled*		○	●	●	●										●		○	●	
Comando resistenza elettrica - *Electric heater control*			●	●	●										●				
Funzione economy - *Economy function*			●	●	●										●				
Funzione solo ventilazione - *Fan function*	●				●										●				
Timer per accensione/spegnimento - *On/Off timer*					●										●				
Funzione antistratificazione - *Air recirculation function*			●	●	●										●				
Funzione master/slave - *Master/slave function*															●				
Ventilatore modulante - *Modulating fan*				●	●										●				
Programmazione settimanale - *Weekly timetable*					●														

● Funzione presente *Function available*

○ Solo 2 tubi *2 pipe only*

37T Funzione disponibile tramite 37T *Function available by 37T*

SDI-V Funzione disponibile tramite SDI-V *Function available by SDI-V*

07_04_01_02

CONTROLLERS

REGOLATORI - *CONTROLLERS*	i-30	i-50	i-60	i-70	503FA	503BUS + DIN5	503CT	SDI-V	CD4S	TA/1	COM-V	COM-B	Regolatore continuo di velocità *Speed continuos regolator*	Termostato antigelo *Antifreeze*	Umidostato da parete *Wall humidistat*	S-MOD	FAN01
COMPATIBILITÀ - *COMPATIBILITY*																	
Installazione a parete - *Wall installation*	●	●	●												●		
Installazione a bordo unità - *On board unit installation*								●						●		●	●
Installazione a incasso 503 - *Flush installation box 503*				●	●	●	●				●	●					
UTILIZZO - *USE*																	
Impianto a 2 tubi - *2 pipe system*	●	●	●	●	●	●	●	●			●	●		●	●	●	●
Impianto a 4 tubi - *4 pipe system*	●	●	●	●	●	●		●			●	●		●	●	●	●
CONTROLLI E DISPLAY - *CONTROLS & DISPLAY*																	
Display - *Display*	●	●	●	●	●	●	●									●	
Acceso/Spento - *On/Off*	●	●	●	●	●	●	●				●	●				●	●
Caldo/Freddo - *Heat/Cool*	●	●	●	●	●	●	●									●	●
3 velocità ventilatore - *3 fan speed*	●	●	●	●	●	●					●	●				●	●
Regolazione temperatura - *Set point range*	●	●	●	●	●	●	●									●	●
COMMUTAZIONE - *CHANGEOVER*																	
Velocità automatica - *Automatic speed control*	●	●	●	●	●	●										●	●
Caldo/freddo centralizzata - *Central season changeover*	●	●														●	
Caldo/freddo automatico (impianto 2 tubi) Automatic season changeover (2 pipe system)	●	●		●												●	●
Caldo/freddo automatico con zona neutra (impianto 4 tubi) *Automatic season changeover with neutral zone (4 pipe system)*	●	●		●	●											●	●
INGRESSI - *INPUTS*																	
Sonda aria remota - *Remote air intake sensor*	●	●		●		●										●	●
Sonda acqua - *Water sensor*	●	●		●	●	●										●	●
Termostato di consenso TC - TC *low temperature thermostat*	●	●															●
Contatto finestra - *Windows contact*	●	●		●												●	●
USCITE - *OUTPUTS*																	
Valvole On/Off - *On/Off valves*	●	●	●	●	●	●	●	●								●	●
Valvole 3 punti (PWM) - *Floating valves (PWM)*		●														●	
Valvole 0-10V - *0-10V proportional valves*	●			●												●	●
FUNZIONI SPECIALI - *SPECIAL FUNCTIONS*																	
Ventilatore termostatato - *Fan thermostat controlled*	●	●	●	●	●	●										●	●
Comando resistenza elettrica - *Electric heater control*	●	●		●													●
Funzione economy - *Economy function*	●	●	●	●												●	●
Funzione solo ventilazione - *Fan function*			●	●												●	
Timer per accensione/spegnimento - *On/Off timer*			●				●									●	
Funzione antistratificazione - *Air recirculation function*	●	●														●	
Funzione master/slave - *Master/slave function*						●		●									
Ventilatore modulante - *Modulating fan*	●			●												●	●
Programmazione settimanale - *Weekly timetable*			●				●									●	

● Funzione presente *Function available*

○ Solo 2 tubi *2 pipe only*

37T Funzione disponibile tramite 37T *Function available by 37T*

SDI-V Funzione disponibile tramite SDI-V *Function available by SDI-V*

NOTES

07_04_01_02_FRESH_Technical Manual_Ventilclima_EN

www.aliseogroup.com

Ventilclima®
a trademark of A GROUP

A GROUP S.p.A.

Via Monte Grappa, 67 - 31020 San Zenone degli Ezzelini (TV) - Italy
Tel. +39 0423 969037 - Fax +39 0423 968197
info@ventilclima.com - ventilclima.com

MADE IN ITALY

CE