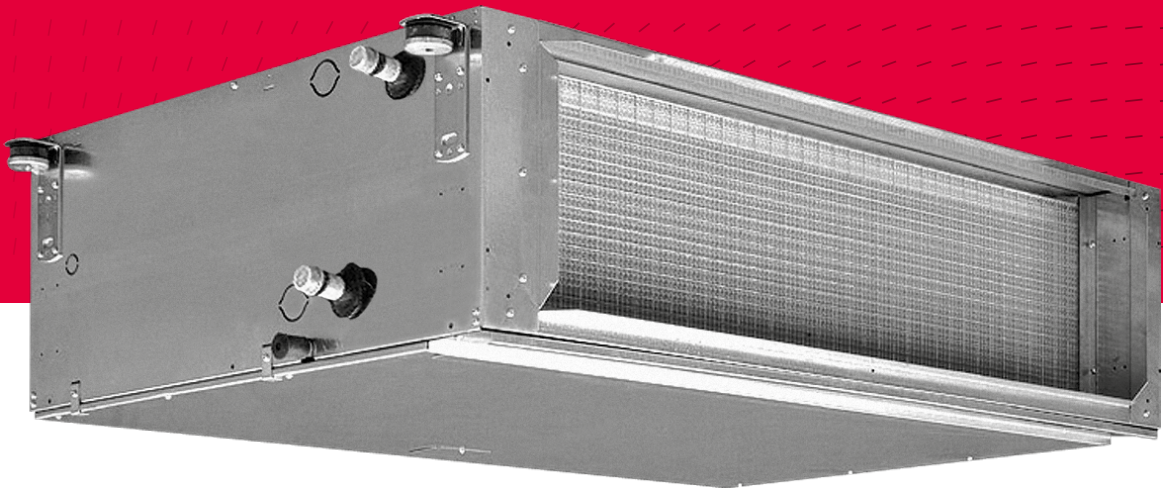


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INALTO HPS INALTO HPS- ECM

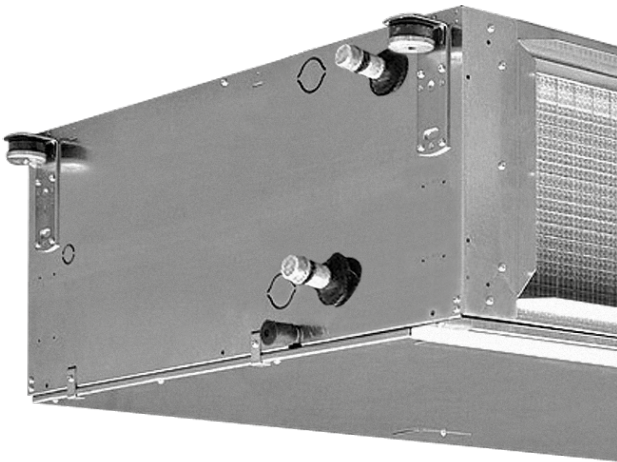
High Pressure - Ducted Fancoil Units



INALTO HPS	3	3	L
MODEL	SIZE	COIL ROWS	HYDRAULIC CONNECTIONS
HPA - DUCTED HPS AC Motor	1	3	L - Left
HPE - DUCTED HPS EC Motor	2	3+1	R - Right
	3	3+2	
	4	4	
	5	4+1	
	6	4+2	
	7	6	
	8	6+1	
		6+2	

INALTO HPS 1÷5 RANGE WITH AC ASYNCHRONOUS MOTOR

- # The fan coil units of the INALTO HPS range allow atvery economical cost to heat and/or cool all civil, industrial, commercial or sports premises.
- # They are designed and built for installation in the suspended ceilings, concealed or ducted.
- # The INALTO HPS 1÷5 sizes supply a consistent air flow with static pressure up to 160 Pa.
- # The INALTO HPS 1÷5 sizes can be equipped with a 3or 4 row coil or with two 3+1 or 4+1 row coils (special executions 3+2 or 4+2 are on demand).
- # The fan assembly has 5 speeds.
- # Compliant with Regulation (EU) No. 327/2011.



CASING

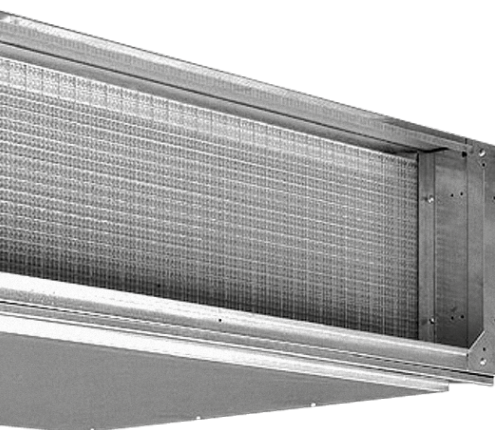
- # It is made with 1,0 mm galvanized steel for sizes 1-2-3 and with 1,2 mm galvanized steel for sizes 4-5, insulated with 10 mm polyolefin (PO) foam (B-s2-d0 EN 13501-1).

FAN ASSEMBLY

- # Consists of quiet centrifugal fans with two impellers and a directly driven single phase, five speed motor, 230 V 50 Hz, with capacitor, insulation class F.

COIL

- # It is manufactured from drawn copper tube and the aluminium fins are mechanically bonded onto the tube by an expansion process.
- # The INALTO HPS (sizes 1+5) is available with the combination of either 3 or 4 row coils with the possibility to add a 1 or 2 row coil (3+1, 4+1, 3+2, 4+2 versions for 4 pipe systems).
- # **The connections are on the left side looking from the air inlet of the unit**
- # On request the connections can be moved to the other side.
- # The coil is not suitable for use in corrosive atmosphere or in environments where aluminium may be subject to corrosion.



FILTER

- # The filter is made of polypropylene cellular fabric regenerating filter. The filter frame of galvanized steel is inserted into sliding guides fastened to the internal structure for easy insertion and removal of the filter.

CONDENSATE COLLECTION TRAY

- # It is made from galvanized steel insulated with 3 mm polyolefin (PO) foam (B-s2-d0 EN 13501-1).

3 ROW COIL - 2 PIPE UNITS

The following standard rating conditions are used:

COOLING

Entering air temperature: + 27 °C d.b. + 19 °C w.b.
Water temperature: +7 °C E.W.T. +12 °C L.W.T.

HEATING

Entering air temperature: + 20 °C
Water temperature: +60 °C E.W.T, +50 °C L.W.T.

Available pressure: 0 Pa

MODEL		INALTO HPS 13					INALTO HPS 23					INALTO HPS 33				
SPEED		1	2	3	4	5	1	2	3	4	5	1	2	3	4	5
Air flow	m³/h	995	1140	1340	1640	1925	855	1165	1550	2060	2510	1815	2080	2300	2590	2790
Cooling total emission	kW	4,05	4,37	4,78	5,32	5,78	4,32	5,21	6,14	7,17	7,90	7,43	8,00	8,44	9,00	9,36
Cooling sensible emission	kW	3,42	3,77	4,24	4,90	5,49	3,29	4,13	5,08	6,23	7,12	6,02	6,62	7,10	7,73	8,16
Heating emission	kW	7,91	8,71	9,73	11,13	12,33	7,75	9,74	11,92	14,45	16,44	14,27	15,69	16,80	18,19	19,10
Dp Cooling	kPa	7,0	8,1	9,6	11,6	13,7	8,7	12,4	16,9	22,5	27,4	18,7	21,5	23,8	26,8	28,8
Dp Heating	kPa	4,8	5,8	7,1	9,1	11,0	5,1	7,8	11,4	16,4	20,9	12,3	14,6	16,6	19,3	21,1
Fan	W	136	154	175	210	240	180	225	273	320	340	390	430	470	509	523
Sound power (Lw)	dB(A)	46	49	52	55	59	47	53	57	60	64	58	60	62	64	66
Sound pressure (Lp) (1)	dB(A)	37	40	43	46	50	38	44	48	51	55	49	51	53	55	57

MODEL		INALTO HPS 43					INALTO HPS 53				
SPEED		1	2	3	4	5	1	2	3	4	5
Air flow	m³/h	2265	2585	2855	3130	3400	2905	3275	3540	3975	4400
Cooling total emission	kW	9,63	10,34	10,91	11,46	11,91	12,67	13,51	14,07	14,99	15,79
Cooling sensible emission	kW	7,70	8,44	9,05	9,64	10,16	10,31	11,22	11,82	12,85	13,78
Heating emission	kW	18,06	19,82	21,21	22,56	23,65	23,64	25,71	27,14	29,35	31,42
Dp Cooling	kPa	18,4	21,2	23,5	25,7	28,0	17,2	19,6	21,2	23,9	26,5
Dp Heating	kPa	9,2	11,0	12,5	14,0	15,5	10,9	12,7	14,1	16,3	18,4
Fan	W	445	505	550	600	680	541	622	703	782	885
Sound power (Lw)	dB(A)	60	62	65	67	69	64	67	69	71	75
Sound pressure (Lp) (1)	dB(A)	51	53	56	58	60	55	58	60	62	66

(1) The sound pressure levels are 9 dB (A) lower than the sound power levels, apply to the reverberant field of a 100 m³ room and a reverberation time of 0.5 sec.

4 ROW COIL - 2 PIPE UNITS

The following standard rating conditions are used:

COOLING

Entering air temperature: + 27 °C d.b. + 19 °C w.b.
Water temperature: +7 °C E.W.T. +12 °C L.W.T.

HEATING

Entering air temperature: + 20 °C
Water temperature: +60 °C E.W.T, +50 °C L.W.T.

Available pressure: 0 Pa

MODEL		INALTO HPS 14					INALTO HPS 24					INALTO HPS 34				
SPEED		1	2	3	4	5	1	2	3	4	5	1	2	3	4	5
Air flow	m³/h	940	1115	1315	1575	1835	855	1160	1535	2005	2360	1795	2060	2265	2550	2745
Cooling total emission	kW	4,67	5,18	5,71	6,32	6,84	5,04	6,18	7,36	8,59	9,39	8,94	9,71	10,24	10,96	11,43
Cooling sensible emission	kW	3,72	4,23	4,79	5,47	6,09	3,70	4,70	5,82	7,08	7,95	6,90	7,63	8,17	8,91	9,40
Heating emission	kW	8,76	9,95	11,22	12,77	14,20	8,77	11,13	13,76	16,69	18,71	16,43	18,20	19,50	21,22	22,36
Dp Cooling	kPa	6,0	7,3	8,8	10,6	12,4	6,7	9,8	13,5	18,1	21,4	16,3	19,0	21,0	23,9	25,8
Dp Heating	kPa	3,9	4,9	6,1	7,8	9,5	3,7	5,8	8,6	12,3	15,2	9,9	12,0	13,7	16,1	17,7
Fan	W	130	151	173	204	232	180	222	268	320	340	380	426	464	505	520
Sound power (Lw)	dB(A)	46	49	52	55	59	47	53	57	60	64	58	60	62	64	66
Sound pressure (Lp) (1)	dB(A)	37	40	43	46	50	38	44	48	51	55	49	51	53	55	57

MODEL		INALTO HPS 44					INALTO HPS 54				
SPEED		1	2	3	4	5	1	2	3	4	5
Air flow	m³/h	2245	2560	2820	3085	3340	2885	3240	3505	3920	4330
Cooling total emission	kW	11,47	12,40	13,12	13,81	14,38	14,99	16,07	16,80	17,95	18,93
Cooling sensible emission	kW	8,79	9,67	10,38	11,07	11,68	11,63	12,68	13,41	14,57	15,63
Heating emission	kW	20,86	23,02	24,69	26,36	27,90	27,08	29,56	31,31	33,96	36,49
Dp Cooling	kPa	14,6	16,9	18,8	20,8	22,6	13,5	15,4	16,8	19,0	21,2
Dp Heating	kPa	8,7	10,5	12,0	13,6	15,1	8,0	9,5	10,6	12,3	14,0
Fan	W	445	505	550	600	680	536	612	689	766	868
Sound power (Lw)	dB(A)	60	62	65	67	69	64	67	69	71	75
Sound pressure (Lp) (1)	dB(A)	51	53	56	58	60	55	58	60	62	66

(1) The sound pressure levels are 9 dB (A) lower than the sound power levels, apply to the reverberant field of a 100 m³ room and a reverberation time of 0.5 sec.

4 ROW COIL - 4 PIPE UNITS

The following standard rating conditions are used:

COOLING

Entering air temperature: + 27 °C d.b. + 19 °C w.b.
Water temperature: +7 °C E.W.T. +12 °C L.W.T.

HEATING

Entering air temperature: + 20 °C
Water temperature: +45 °C E.W.T. +40 °C L.W.T.

MODEL		INALTO HPS 14			INALTO HPS 24			INALTO HPS 34			INALTO HPS 44			INALTO HPS 54		
SPEED		1	3	5	1	3	5	1	3	5	1	3	5	1	3	5
Air flow	m³/h	790	1125	1410	840	1410	1825	1710	2075	2440	2070	2580	3020	2740	3280	3850
Available pressure	Pa	25	50	75	15	50	80	30	50	70	35	50	67	35	50	70
Cooling total emission	kW	4,17	5,21	5,92	4,99	7,01	8,15	8,71	9,76	10,71	10,90	12,40	13,60	14,54	16,19	17,76
Cooling sensible emission	kW	3,25	4,26	5,03	3,66	5,48	6,62	6,67	7,68	8,65	8,25	9,70	10,90	11,21	12,80	14,37
Heating emission	kW	4,98	6,44	7,67	5,57	8,27	10,10	10,20	11,80	13,19	12,79	14,92	16,53	17,67	20,32	22,93
Dp Cooling	kPa	5,1	7,6	9,6	6,9	12,7	16,8	16,0	19,8	23,4	13,9	17,7	20,9	13,3	16,3	19,4
Dp Heating	kPa	5,2	8,2	11,3	6,2	17,0	18,3	15,6	23,0	24,8	13,4	17,7	21,3	14,2	18,3	22,8
Fan	W	115	155	185	170	230	285	350	420	470	390	490	570	500	617	760
Sound power outlet (Lw)	dB(A)	44	52	58	44	56	61	57	62	65	59	63	66	63	67	70
Sound power inlet + radiated (Lw)	dB(A)	47	55	60	47	59	64	60	64	67	61	65	68	65	69	72
Sound pressure level outlet (Lp) (l)	dB(A)	35	43	49	35	47	52	48	53	56	50	54	57	54	58	61
Sound pressure level inlet + radiated (Lp) (l)	dB(A)	38	46	51	38	50	55	51	55	58	52	56	59	56	60	63
Plenum code		9034200	9034200	9034200	9034200	9034200	9034200	9034220	9034220	9034220	9034230	9034230	9034230	9034240	9034240	9034240

(1) The sound pressure levels are 9 dB (A) lower than the sound power levels, apply to the reverberant field of a 100 m³ room and a reverberation time of 0.5 sec.

4+1 ROW COIL - 4 PIPE UNITS

The following standard rating conditions are used:

COOLING

Entering air temperature: + 27 °C d.b. + 19 °C w.b.
Water temperature: +7 °C E.W.T. +12 °C L.W.T.

HEATING

Entering air temperature: + 20 °C
Water temperature: +65 °C E.W.T. +55 °C L.W.T.

MODEL		INALTO HPS 14+1			INALTO HPS 24+1			INALTO HPS 34+1			INALTO HPS 44+1			INALTO HPS 54+1		
SPEED		1	3	5	1	3	5	1	3	5	1	3	5	1	3	5
Air flow	m³/h	770	1090	1350	840	1390	1775	1680	2045	2390	2055	2545	2960	2700	3245	3800
Available pressure	Pa	25	50	75	15	50	80	30	50	70	35	50	67	35	50	70
Cooling total emission	kW	4,09	5,11	5,79	4,99	6,96	8,03	8,61	9,67	10,58	10,85	12,34	13,46	13,75	15,31	16,73
Cooling sensible emission	kW	3,18	4,16	4,87	3,66	5,42	6,49	6,58	7,60	8,51	8,21	9,61	10,72	10,62	12,13	13,56
Heating emission	kW	3,49	4,29	4,81	4,09	5,53	6,30	6,70	7,44	8,08	8,95	9,95	10,60	11,34	12,55	13,64
Dp Cooling	kPa	4,9	7,3	9,2	6,9	12,5	16,3	15,7	19,4	22,9	13,8	17,4	20,5	12,0	14,7	17,4
Dp Heating	kPa	9,8	14,2	17,5	12,0	20,8	26,3	12,9	15,6	18,1	24,6	29,9	33,9	27,4	32,9	38,4
Fan	W	115	155	185	170	230	285	350	420	470	390	490	570	500	617	760
Sound power outlet (Lw)	dB(A)	44	52	58	44	56	61	57	62	65	59	63	66	63	67	70
Sound power inlet + radiated (Lw)	dB(A)	47	55	60	47	59	64	60	64	67	61	65	68	65	69	72
Sound pressure level outlet (Lp) (l)	dB(A)	35	43	49	35	47	52	48	53	56	50	54	57	54	58	61
Sound pressure level inlet + radiated (Lp) (l)	dB(A)	38	46	51	38	50	55	51	55	58	52	56	59	56	60	63
Plenum code		9034200	9034200	9034200	9034200	9034200	9034200	9034220	9034220	9034220	9034230	9034230	9034230	9034240	9034240	9034240

(1) The sound pressure levels are 9 dB (A) lower than the sound power levels, apply to the reverberant field of a 100 m³ room and a reverberation time of 0.5 sec.

3+1 ROW COIL - 4 PIPE UNITS

The following standard rating conditions are used:

COOLING

Entering air temperature: + 27 °C d.b. + 19 °C w.b.
Water temperature: +7 °C E.W.T. +12 °C L.W.T.

HEATING

Entering air temperature: + 20 °C
Water temperature: +70 °C E.W.T., +60 °C L.W.T.

Available pressure: 0 Pa

MODEL		INALTO HPS 13÷1					INALTO HPS 23÷1					INALTO HPS 33÷1				
SPEED		1	2	3	4	5	1	2	3	4	5	1	2	3	4	5
Air flow	m³/h	940	1115	1315	1575	1835	855	1160	1535	2005	2360	1795	2060	2265	2550	2745
Cooling total emission	kW	3,92	4,32	4,74	5,21	5,64	4,32	5,20	6,11	7,07	7,66	7,38	7,96	8,37	8,92	9,30
Cooling sensible emission	kW	3,28	3,71	4,18	4,76	5,30	3,29	4,12	5,05	6,11	6,83	5,97	6,58	7,03	7,64	8,07
Heating emission	kW	4,58	5,04	5,51	6,07	6,58	4,78	5,79	6,76	7,78	8,44	8,07	8,69	9,12	9,71	10,08
Dp Cooling	kPa	6,6	7,9	9,4	11,3	13,2	8,7	12,4	16,8	22,0	25,8	18,4	21,2	23,5	26,4	28,4
Dp Heating	kPa	13,7	16,4	19,2	23,0	26,5	15,9	22,4	29,8	38,6	44,8	18,4	21,0	23,0	25,7	27,5
Fan	W	130	151	173	204	232	180	222	268	320	340	380	426	464	505	520
Sound power (Lw)	dB(A)	46	49	52	55	59	47	53	57	60	64	58	60	62	64	66
Sound pressure (Lp) (1)	dB(A)	37	40	43	46	50	38	44	48	51	55	49	51	53	55	57

MODEL		INALTO HPS 43÷1					INALTO HPS 53÷1				
SPEED		1	2	3	4	5	1	2	3	4	5
Air flow	m³/h	2245	2560	2820	3085	3340	2885	3240	3505	3920	4330
Cooling total emission	kW	9,58	10,29	10,84	11,36	11,80	12,61	13,46	14,01	14,88	15,63
Cooling sensible emission	kW	7,65	8,39	8,97	9,54	10,04	10,26	11,15	11,76	12,73	13,62
Heating emission	kW	10,53	11,32	11,93	12,50	13,04	13,42	14,30	14,92	15,85	16,73
Dp Cooling	kPa	18,3	21,0	23,2	25,4	27,5	17,1	19,3	21,0	23,5	26,1
Dp Heating	kPa	32,4	37,0	40,8	44,4	47,8	30,0	33,6	36,4	40,6	44,6
Fan	W	445	505	550	600	680	536	612	689	766	868
Sound power (Lw)	dB(A)	60	62	65	67	69	64	67	69	71	75
Sound pressure (Lp) (1)	dB(A)	51	53	56	58	60	55	58	60	62	66

(1) The sound pressure levels are 9 dB (A) lower than the sound power levels, apply to the reverberant field of a 100 m³ room and a reverberation time of 0.5 sec.

4+1 ROW COIL - 4 PIPE UNITS

The following standard rating conditions are used:

COOLING

Entering air temperature: + 27 °C d.b. + 19 °C w.b.
Water temperature: +7 °C E.W.T. +12 °C L.W.T.

HEATING

Entering air temperature: + 20 °C
Water temperature: +70 °C E.W.T., +60 °C L.W.T.

Available pressure: 0 Pa

MODEL		INALTO HPS 14+1					INALTO HPS 24+1					INALTO HPS 34+1				
SPEED		1	2	3	4	5	1	2	3	4	5	1	2	3	4	5
Air flow	m³/h	910	1090	1290	1530	1775	850	1155	1520	1965	2285	1780	2040	2235	2510	2700
Cooling total emission	kW	4,57	5,11	5,65	6,22	6,75	5,03	6,17	7,32	8,50	9,23	8,90	9,65	10,17	10,85	11,32
Cooling sensible emission	kW	3,62	4,16	4,72	5,35	5,96	3,69	4,69	5,77	6,97	7,77	6,86	7,58	8,10	8,80	9,29
Heating emission	kW	4,49	4,98	5,46	5,99	6,47	4,76	5,76	6,73	7,71	8,30	8,03	8,64	9,07	9,64	9,99
Dp Cooling	kPa	5,8	7,1	8,6	10,3	12,0	6,6	9,7	13,4	17,7	20,7	16,1	18,8	20,7	23,5	25,4
Dp Heating	kPa	15,3	18,4	21,8	25,7	29,6	15,7	22,3	29,6	37,7	43,5	18,2	20,8	22,7	25,3	27,1
Fan	W	127	149	170	199	226	176	218	262	310	330	375	422	458	499	515
Sound power (Lw)	dB(A)	46	49	52	55	59	47	53	57	60	64	58	60	62	64	66
Sound pressure (Lp) (1)	dB(A)	37	40	43	46	50	38	44	48	51	55	49	51	53	55	57

MODEL		INALTO HPS 44+1					INALTO HPS 54+1				
SPEED		1	2	3	4	5	1	2	3	4	5
Air flow	m³/h	2225	2535	2790	3055	3295	2865	3210	3475	3875	4265
Cooling total emission	kW	11,42	12,34	13,04	13,74	14,29	14,93	15,98	16,74	17,83	18,80
Cooling sensible emission	kW	8,74	9,61	10,30	11,00	11,58	11,58	12,59	13,34	14,45	15,48
Heating emission	kW	10,50	11,27	11,86	12,44	12,95	13,37	14,25	14,85	15,77	16,58
Dp Cooling	kPa	14,5	16,7	18,6	20,6	22,3	13,4	15,2	16,7	18,8	20,9
Dp Heating	kPa	32,2	36,7	40,3	43,9	47,2	29,7	33,3	36,1	40,2	44,1
Fan	W	440	500	542	599	670	530	604	678	754	851
Sound power (Lw)	dB(A)	60	62	65	67	69	64	67	69	71	75
Sound pressure (Lp) (1)	dB(A)	51	53	56	58	60	55	58	60	62	66

(1) The sound pressure levels are 9 dB (A) lower than the sound power levels, apply to the reverberant field of a 100 m³ room and a reverberation time of 0.5 sec.

4+2 ROW COIL - 4 PIPE UNITS

The following standard rating conditions are used:

COOLING

Entering air temperature: + 27 °C d.b. + 19 °C w.b.
Water temperature: +7 °C E.W.T. +12 °C L.W.T.

HEATING

Entering air temperature: + 20 °C
Water temperature: +70 °C E.W.T., +60 °C L.W.T.

Available pressure: 0 Pa

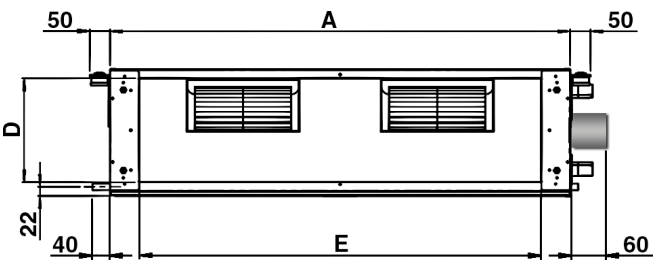
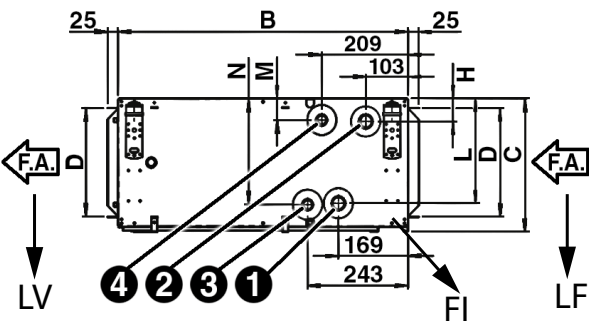
MODEL		INALTO HPS 14+2					INALTO HPS 24+2					INALTO HPS 34+2				
SPEED		1	2	3	4	5	1	2	3	4	5	1	2	3	4	5
Air flow	m³/h	875	1055	1260	1470	1695	845	1145	1505	1910	2190	1765	2010	2195	2455	2645
Cooling total emission	kW	4,46	5,00	5,57	6,08	6,60	5,01	6,14	7,28	8,36	9,02	8,86	9,57	10,07	10,73	11,20
Cooling sensible emission	kW	3,51	4,05	4,63	5,19	5,78	3,67	4,67	5,74	6,83	7,54	6,82	7,50	7,99	8,67	9,16
Heating emission	kW	8,56	9,72	10,92	12,06	13,17	9,14	11,35	13,67	15,95	17,37	16,19	17,63	18,66	20,02	20,98
Dp Cooling	kPa	5,5	6,8	8,3	9,9	11,4	6,6	9,6	13,2	17,2	19,8	16,0	18,4	20,3	22,9	24,8
Dp Heating	kPa	13,2	16,7	20,8	24,8	29,3	12,3	18,4	26,1	34,6	40,6	18,0	21,2	23,5	26,8	29,2
Fan	W	124	145	168	193	218	173	212	257	310	330	369	414	449	489	507
Sound power (Lw)	dB(A)	46	49	52	55	59	47	53	57	60	64	58	60	62	64	66
Sound pressure (Lp) (1)	dB(A)	37	40	43	46	50	38	44	48	51	55	49	51	53	55	57

MODEL		INALTO HPS 44+2					INALTO HPS 54+2				
SPEED		1	2	3	4	5	1	2	3	4	5
Air flow	m³/h	2205	2500	2745	3005	3230	2825	3165	3430	3810	4170
Cooling total emission	kW	11,36	12,24	12,92	13,60	14,14	14,83	15,87	16,62	17,64	18,55
Cooling sensible emission	kW	8,69	9,52	10,19	10,87	11,42	11,47	12,47	13,22	14,27	15,22
Heating emission	kW	20,93	22,77	24,21	25,66	26,87	26,37	28,46	29,97	32,07	33,94
Dp Cooling	kPa	14,3	16,5	18,3	20,2	21,8	13,2	15,0	16,4	18,5	20,4
Dp Heating	kPa	27,2	31,8	35,6	39,6	43,3	27,4	31,6	34,8	39,4	43,7
Fan	W	434	489	528	587	650	521	593	662	737	828
Sound power (Lw)	dB(A)	60	62	65	67	69	64	67	69	71	75
Sound pressure (Lp) (1)	dB(A)	51	53	56	58	60	55	58	60	62	66

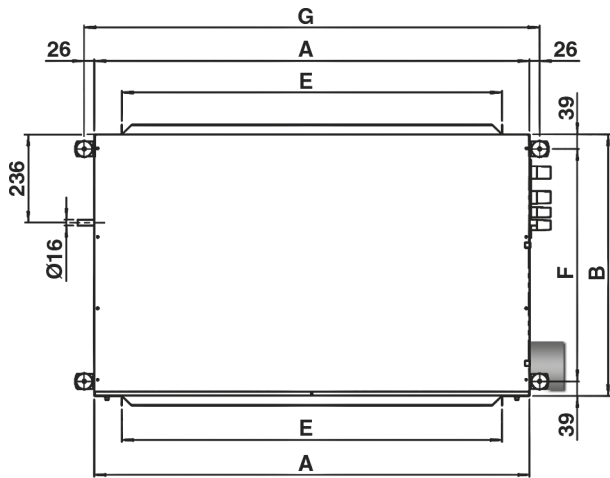
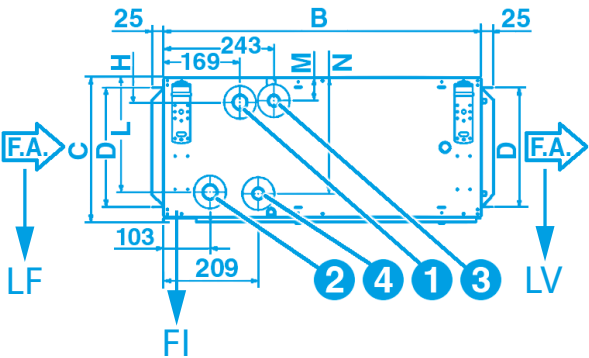
(1) The sound pressure levels are 9 dB (A) lower than the sound power levels, apply to the reverberant field of a 100 m³ room and a reverberation time of 0.5 sec.

DIMENSION, WEIGHT AND WATER CONTENT

LEFT CONFIGURATION (STANDARD)



RIGHT CONFIGURATION (ON DEMAND)



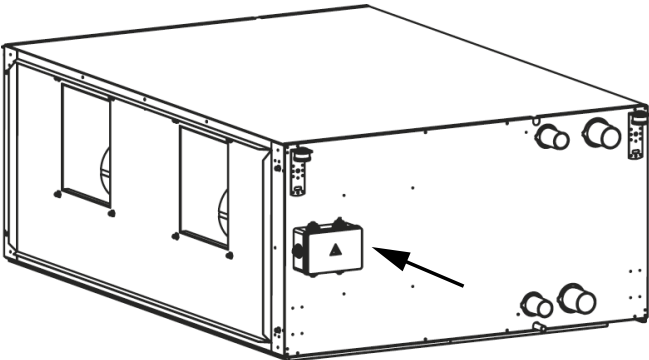
- 1 = main coil water inlet
- 2 = main coil water outlet
- 3 = additional coil water inlet
- 4 = additional coil water outlet
- LV = fan side (outlet)
- FI = filter
- LF = filter side (inlet)
- F.A. = air flow

STANDARD



Coil connections on the left looking the air direction

WIRING TERMINAL BOARD



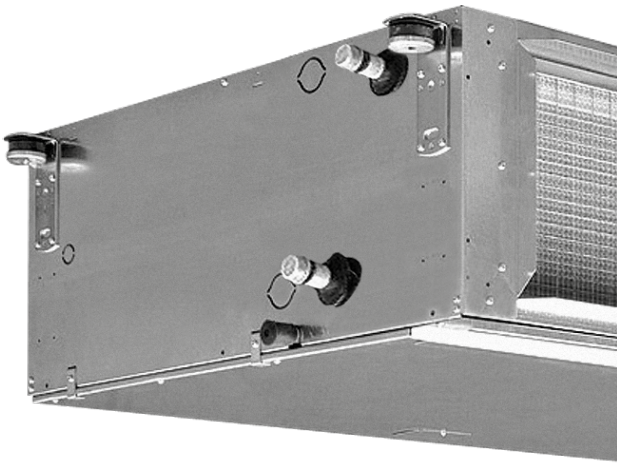
DIMENSIONS

MODEL		INALTO HPS 1	INALTO HPS 2	INALTO HPS 3	INALTO HPS 4	INALTO HPS 5
A	mm	1133	1133	1133	1445	1445
B	mm	698	698	698	853	853
C	mm	310	310	360	360	435
D	mm	255	255	305	293	368
E	mm	991	991	991	1302	1302
F	mm	620	620	620	775	775
G	mm	1185	1185	1185	1497	1497
H	mm	54	54	54	58	58
L	mm	245	245	295	291	367
M	mm	50	50	50	54	54
N	mm	249	249	299	295	370

INALTO HPS	3	3	L
MODEL	SIZE	COIL ROWS	HYDRAULIC CONNECTIONS
HPA - DUCTED HPS AC Motor	1	3	L - Left
HPE - DUCTED HPS EC Motor	2	3+1	R - Right
	3	3+2	
	4	4	
	5	4+1	
	6	4+2	
	7	6	
	8	6+1	
		6+2	

INALTO HPS 6-7 RANGE WITH AC ASYNCHRONOUS MOTOR

- # The fan coil units of the INALTO HPS range allow at very economical cost to heat and/or cool all civil, industrial, commercial or sports premises.
- # They are designed and built for installation in the suspended ceilings, concealed or ducted.
- # The INALTO HPS 6-7 sizes supply a consistent air flow with static pressure up to 250 Pa.
- # The INALTO HPS 6-7 sizes can be equipped either with a 4 or 6 row coil or with two coils with 4+2 or 6+2 rows.
- # The fan assembly has 3 speeds.
- # Compliant with Regulation (EU) No. 327/2011.



CASING

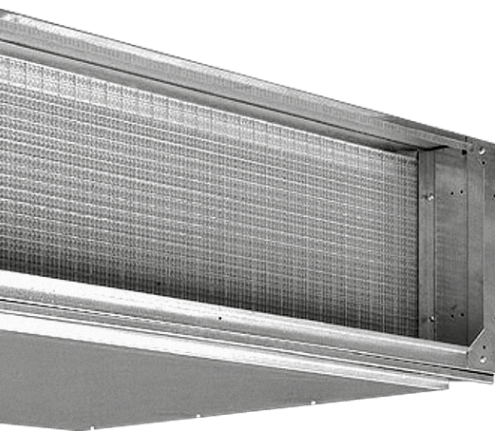
- # It is made with 1,2 mm galvanized steel for sizes 6-7, insulated with 10 mm polyolefin (PO) foam (B-s2-d0 EN 13501-1).

FAN ASSEMBLY

- # Consists of quiet centrifugal fans with two impellers and a directly driven single phase, three speed motor, 230 V 50 Hz, with external rotor, capacitor, insulation class F.

COIL

- # It is manufactured from drawn copper tube and the aluminium fins are mechanically bonded onto the tube by an expansion process.
- # The INALTO HPS (sizes 6÷7) is available with the combination of either 4 or 6 row coils with the possibility to add a 2 row coil (4+2, 6+2 versions for 4 pipe systems).
- # The connections are on the left side looking from the air inlet of the unit
- # On request the connections can be moved to the other side.
- # The coil is not suitable for use in corrosive atmosphere or in environments where aluminium may be subject to corrosion.



FILTER

- # The filter is made of polypropylene cellular fabric regenerating filter. The filter frame of galvanized steel is inserted into sliding guides fastened to the internal structure for easy insertion and removal of the filter.

CONDENSATE COLLECTION TRAY

- # It is made from galvanized steel insulated with 3 mm polyolefin (PO) foam (B-s2-d0 EN 13501-1).

4 AND 6 ROW COIL - 2 PIPE UNITS

The following standard rating conditions are used:

COOLING

Entering air temperature: + 27 °C d.b. + 19 °C w.b.
Water temperature: +7 °C E.W.T. +12 °C L.W.T.

HEATING

Entering air temperature: + 20 °C
Water temperature: +60 °C E.W.T, +50 °C L.W.T.

Available pressure: 0 Pa

MODEL		INALTO HPS 64			INALTO HPS 66			INALTO HPS 74			INALTO HPS 76		
SPEED		1	2	3	1	2	3	1	2	3	1	2	3
Air flow	m³/h	2200	3580	5200	2190	3570	5170	3960	5210	7480	3960	5210	7435
Cooling total emission	kW	13,83	19,28	23,94	16,28	23,47	29,89	21,45	25,55	31,22	26,09	31,62	39,52
Cooling sensible emission	kW	9,99	14,64	18,98	11,25	16,90	22,32	16,04	19,66	25,14	18,44	23,02	29,94
Heating emission	kW	23,77	35,01	46,21	26,09	39,57	53,27	39,61	48,83	63,38	44,57	55,84	73,68
Dp Cooling	kPa	9,0	16,4	24,6	11,6	22,2	34,8	14,6	19,8	29,1	18,6	26,1	39,5
Dp Heating	kPa	4,9	9,9	16,3	5,7	12,1	20,6	8,6	12,5	20,0	9,9	14,8	24,4
Fan	W	732	943	1437	715	933	1414	1666	1879	2803	1666	1879	2764
Sound power (Lw)	dB(A)	61	69	76	61	69	76	68	74	81	68	74	81
Sound pressure (Lp) (1)	dB(A)	52	60	67	52	60	67	59	65	72	59	65	72

(1) The sound pressure levels are 9 dB (A) lower than the sound power levels, apply to the reverberant field of a 100 m³ room and a reverberation time of 0.5 sec.

Available pressure: 150 Pa

MODEL		INALTO HPS 64			INALTO HPS 66			INALTO HPS 74			INALTO HPS 76		
SPEED		1	2	3	1	2	3	1	2	3	1	2	3
Air flow	m³/h	1880	3385	4800	1860	3350	4740	3925	5070	7100	3920	5050	7030
Cooling total emission	kW	12,42	18,73	22,89	14,36	22,59	28,28	21,54	25,33	30,63	26,09	31,17	38,42
Cooling sensible emission	kW	8,88	14,16	17,98	9,84	16,20	20,91	16,05	19,46	24,53	18,49	22,66	28,96
Heating emission	kW	20,86	33,52	43,60	22,58	37,53	49,77	39,34	47,85	61,14	44,20	54,45	70,64
Dp Cooling	kPa	7,4	15,3	22,6	9,2	20,5	31,4	14,4	19,3	27,6	18,3	25,1	37,1
Dp Heating	kPa	3,9	9,1	14,7	4,4	11,0	18,2	8,5	12,1	18,8	9,7	14,2	22,6
Fan	W	570	788	1191	565	771	1163	1610	1738	2502	1605	1720	2452
Sound power (Lw)	dB(A)	63	71	77	63	71	77	71	75	81	71	75	81
Sound pressure (Lp) (1)	dB(A)	54	62	68	54	62	68	62	66	72	62	66	72

(1) The sound pressure levels are 9 dB (A) lower than the sound power levels, apply to the reverberant field of a 100 m³ room and a reverberation time of 0.5 sec.

4+2 AND 6+2 ROW COIL - 4 PIPE UNITS

The following standard rating conditions are used:

COOLING

Entering air temperature: + 27 °C d.b. + 19 °C w.b.
Water temperature: +7 °C E.W.T. +12 °C L.W.T.

HEATING

Entering air temperature: + 20 °C
Water temperature: +70 °C E.W.T., +60 °C L.W.T.

Available pressure: 0 Pa

MODEL		INALTO HPS 64+2			INALTO HPS 66+2			INALTO HPS 74+2			INALTO HPS 76+2		
SPEED		1	2	3	1	2	3	1	2	3	1	2	3
Air flow	m³/h	2190	3570	5150	2180	3570	5125	3960	5210	7410	3960	5210	7355
Cooling total emission	kW	13,80	19,24	23,81	16,21	23,47	29,75	21,45	25,55	31,16	26,09	31,62	39,28
Cooling sensible emission	kW	9,97	14,61	18,87	11,20	16,90	22,20	15,95	19,66	25,06	18,44	23,02	29,73
Heating emission	kW	22,28	31,16	39,42	22,21	31,16	39,27	35,74	42,78	53,25	35,74	42,78	52,98
Dp Cooling	kPa	9,0	16,3	24,3	11,5	22,2	34,4	14,6	19,8	28,9	18,6	26,1	38,9
Dp Heating	kPa	14,7	27,0	41,2	14,7	27,0	40,9	24,1	33,3	49,3	24,1	33,3	48,9
Fan	W	715	933	1400	708	933	1382	1666	1879	2743	1666	1879	2698
Sound power (Lw)	dB(A)	61	69	76	61	69	76	68	74	81	68	74	81
Sound pressure (Lp) ⁽¹⁾	dB(A)	52	60	67	52	60	67	59	65	72	59	65	72

⁽¹⁾ The sound pressure levels are 9 dB (A) lower than the sound power levels, apply to the reverberant field of a 100 m³ room and a reverberation time of 0.5 sec.

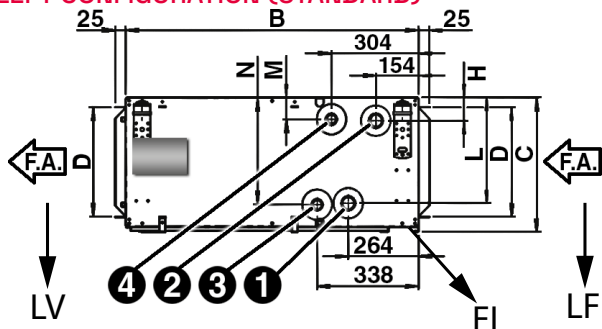
Available pressure: 150 Pa

MODEL		INALTO HPS 64+2			INALTO HPS 66+2			INALTO HPS 74+2			INALTO HPS 76+2		
SPEED		1	2	3	1	2	3	1	2	3	1	2	3
Air flow	m³/h	1860	3330	4680	1850	3300	4600	3920	5040	6980	3910	5000	6900
Cooling total emission	kW	12,33	18,56	22,52	14,10	22,04	27,53	21,53	25,25	30,36	26,08	30,98	38,04
Cooling sensible emission	kW	8,81	14,02	17,62	9,59	15,70	20,26	16,05	19,39	24,28	18,48	22,51	28,62
Heating emission	kW	19,81	29,78	37,13	19,73	29,59	36,76	35,50	41,88	51,31	35,41	41,68	50,95
Dp Cooling	kPa	7,3	15,0	22,0	9,1	20,1	30,3	14,4	19,1	27,1	18,3	24,8	36,3
Dp Heating	kPa	11,9	24,9	37,0	11,8	24,6	36,3	23,8	32,0	46,1	23,7	31,7	45,5
Fan	W	565	762	1137	560	749	1105	1605	1710	2417	1587	1677	2364
Sound power (Lw)	dB(A)	63	71	77	63	71	77	71	75	81	71	75	81
Sound pressure (Lp) ⁽¹⁾	dB(A)	54	62	68	54	62	68	62	66	72	62	66	72

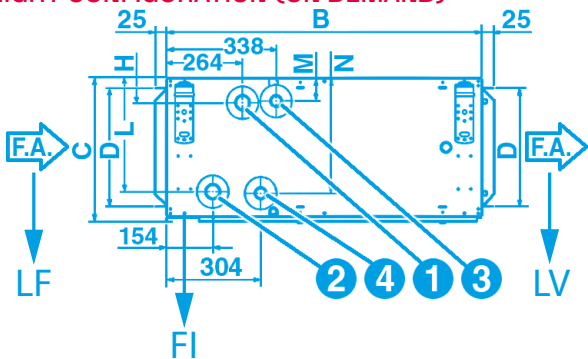
⁽¹⁾ The sound pressure levels are 9 dB (A) lower than the sound power levels, apply to the reverberant field of a 100 m³ room and a reverberation time of 0.5 sec.

DIMENSION, WEIGHT AND WATER CONTENT

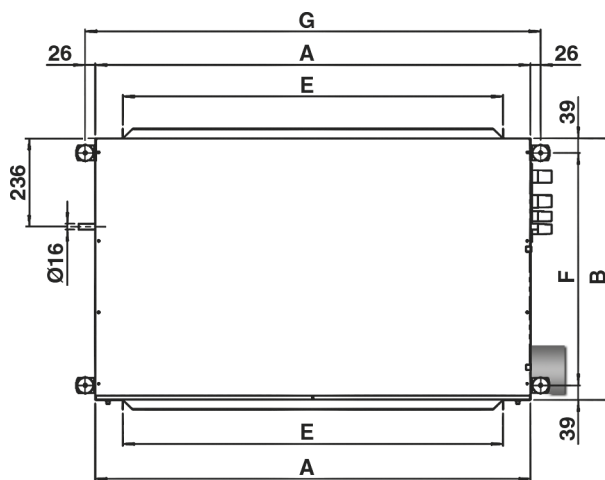
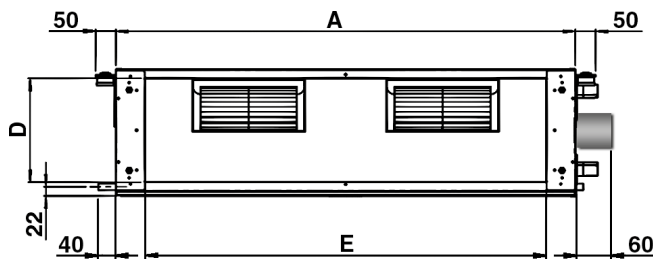
LEFT CONFIGURATION (STANDARD)



RIGHT CONFIGURATION (ON DEMAND)



- 1 = main coil water inlet
2 = main coil water outlet
3 = additional coil water inlet
4 = additional coil water outlet
LV = fan side (outlet)
FI = filter
LF = filter side (inlet)
F.A. = air flow

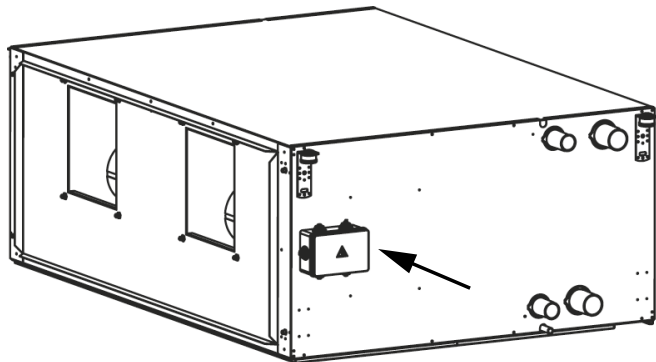


STANDARD



Coil connections on the left looking the air direction

WIRING TERMINAL BOARD



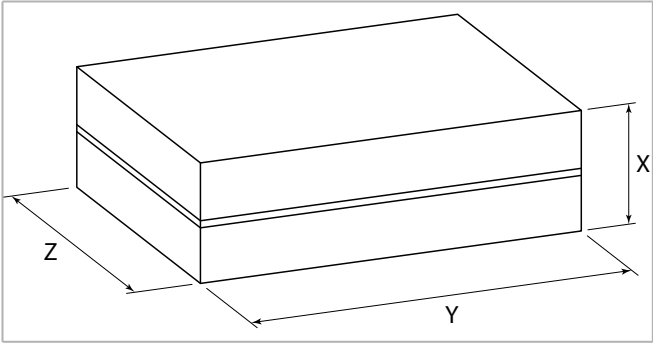
DIMENSIONS

MODEL		INALTO HPS 6	INALTO HPS 7
A	mm	1535	1535
B	mm	1100	1100
C	mm	488	588
D	mm	421	521
E	mm	1393	1393
F	mm	1022	1022
G	mm	1587	1587
H	mm	59	59
L	mm	416	516
M	mm	55	55
N	mm	421	521

COIL CONNECTIONS

MODEL	POS.	INALTO HPS 6	INALTO HPS 7
Main coil inlet	1	11/4"	11/4"
Main coil outlet	2	11/4"	11/4"
Additional coil inlet	3	1"	1"
Additional coil outlet	4	1"	1"

PACKED UNIT



MODEL		INALTO HPS 6	INALTO HPS 7
X	mm	505	605
Y	mm	1695	
Z	mm	1207	

WEIGHT (KG)

Weight without packaging

MODEL	INALTO HPS 6	INALTO HPS 7
4 rows	124	140
4+2 rows	134	152
6 rows	130	148
6+2 rows	140	160

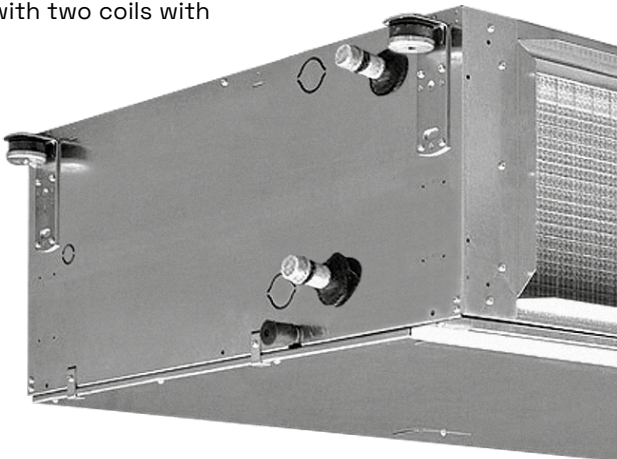
Weight with packaging

MODEL	INALTO HPS 6	INALTO HPS 7
4 rows	127	143
4+2 rows	137	155
6 rows	133	151
6+2 rows	143	163

INALTO HPS	3	3	L
MODEL	SIZE	COIL ROWS	HYDRAULIC CONNECTIONS
HPA - DUCTED HPS AC Motor	1	3	L - Left
HPE - DUCTED HPS EC Motor	2	3+1	R - Right
	3	3+2	
	4	4	
	5	4+1	
	6	4+2	
	7	6	
	8	6+1	
		6+2	

INALTO HPS-ECM 1÷6 RANGE WITH ELECTRONIC MOTOR AND INVERTER BOARD

- # The fan coil units of the INALTO HPS-ECM range allow at very economical cost to heat and/or cool all civil, industrial, commercial or sports premises.
- # They are designed and built for installation in the suspended ceilings, concealed or ducted.
- # The INALTO HPS-ECM units supply a consistent air flow with static pressure up to 160 Pa for the sizes 1÷5 and 240 Pa for the size 6.
- # The INALTO HPS-ECM 1÷5 sizes can be equipped with a 3 or 4 row coil or with two 3+1 or 4+1 row coils (special executions 3+2 or 4+2 are on demand).
- # The INALTO HPS-ECM 6 size can be equipped either with a 4 or 6 row coil or with two coils with 4+2 or 6+2 rows.



CASING

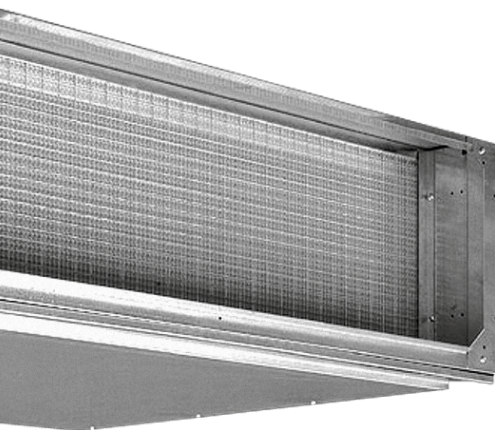
- # It is made with 1,0 mm galvanized steel for sizes 1 - 2 - 3 and with 1,2 mm galvanized steel for sizes 4 - 5 - 6, insulated with 10 mm polyolefin (PO) foam (B-s2-d0 EN 13501-1).

FAN ASSEMBLY

- # Consists of quiet centrifugal fans with two impellers directly driven to the motor.

COIL

- # It is manufactured from drawn copper tube and the aluminium fins are mechanically bonded onto the tube by an expansion process.
- # The sizes 1÷5 can be equipped also with the combination of either 1 or 2 additional row coil (versions 3+1, 4+1, 3+2, 4+2 for 4 pipe installation systems). Whereas the size 6 can be equipped with an additional coil with 2 rows (version 4+2 and 6+2 for 4 pipe installation systems).
- # The connections are on the left side looking from the air inlet of the unit
- # On request the connections can be moved to the other side. The coil is not suitable for use in corrosive atmosphere or in environments where aluminium may be subject to corrosion.



ELECTRONIC MOTOR

- # Three phase permanent magnet brushless electronic motor that is controlled with current reconstructed according to a BLAC sinusoidal wave.
- # The inverter board that controls the motor operation is powered by 230 Volt, single-phase and, with a switching system, it generates a three-phase frequency modulated, wave form power supply.
- # The electric power supply required for the machine is therefore single-phase with voltage of 230 V and frequency of 50 - 60 Hz.

CONDENSATE COLLECTION TRAY

- # It is made from galvanized steel insulated with 3 mm polyolefin (PO) foam (B-s2-d0 EN 13501-1).

4 AND 6 ROW COIL UNIT

The following standard rating conditions are used:

COOLING

Entering air temperature: + 27 °C d.b. + 19 °C w.b.

Water temperature: +7 °C E.W.T. +12 °C L.W.T.

HEATING

Entering air temperature: + 20 °C

Water temperature: +45 °C E.W.T. +40 °C L.W.T.

MODEL		INALTO HPS-ECM 14			INALTO HPS-ECM 24			INALTO HPS-ECM 34			INALTO HPS-ECM 44		
INVERTER SPEED SIGNAL (VDC)		4,5	7	9	4	6	8	4,5	6,5	8	5,5	7,5	10
		MIN	MED	MAX	MIN	MED	MAX	MIN	MED	MAX	MIN	MED	MAX
Air flow	m³/h	780	1100	1310	940	1360	1780	1380	1950	2390	1840	2440	3080
Available pressure	Pa	26	50	70	24	50	85	25	50	75	28	50	80
Cooling total emission	kW	4,14	5,11	5,61	5,44	6,86	7,94	7,87	9,70	10,81	10,47	12,39	13,99
Cooling sensible emission	kW	3,24	4,18	4,72	4,08	5,36	6,44	5,93	7,61	8,72	7,90	9,65	11,23
Heating emission	kW	5,18	6,80	7,76	6,42	8,64	10,62	8,64	11,25	13,06	12,13	15,15	18,08
Dp Cooling	kPa	4,9	7,2	8,7	7,7	11,8	15,8	11,7	17,4	21,6	12,2	16,9	21,7
Dp Heating	kPa	6,5	10,7	13,7	7,5	12,9	18,8	10,1	16,4	21,4	11,6	17,4	23,9
Fan	W	40	88	144	44	110	225	80	195	340	110	253	530
Sound power outlet (Lw)	dB(A)	45	52	59	45	55	61	52	60	64	55	62	67
Sound power inlet + radiated (Lw)	dB(A)	48	55	61	48	57	63	55	62	66	58	64	69
Sound pressure level outlet (Lp) (1)	dB(A)	36	43	50	36	46	52	43	51	55	46	53	58
Sound pressure level inlet + radiated (Lp) (1)	dB(A)	39	46	52	39	48	54	46	53	57	49	55	60
Plenum code		9034200	9034200	9034200	9034200	9034200	9034200	9034220	9034220	9034220	9034230	9034230	9034230

MODEL		INALTO HPS-ECM 54			INALTO HPS-ECM 64			INALTO HPS-ECM 66		
INVERTER SPEED SIGNAL (VDC)		3	5	7	3	6	9	3	6	9
		MIN	MED	MAX	MIN	MED	MAX	MIN	MED	MAX
Air flow	m³/h	2400	3320	3920	2825	4295	5205	2825	4295	5205
Available pressure	Pa	25	50	70	22	50	74	22	50	74
Cooling total emission	kW	13,73	16,70	18,17	16,91	21,91	24,30	20,36	27,20	30,64
Cooling sensible emission	kW	10,46	13,26	14,75	12,85	17,79	20,30	14,47	20,39	23,48
Heating emission	kW	15,90	20,51	23,25	18,63	25,83	29,76	20,74	29,57	34,54
Dp Cooling	kPa	12,3	17,9	21,4	15,9	25,9	31,8	21,3	36,6	46,1
Dp Heating	kPa	12,8	20,3	25,4	14,2	25,6	33,1	16,7	31,7	42,0
Fan	W	166	383	702	106	330	636	109	339	654
Sound power outlet (Lw)	dB(A)	58	67	71	57	69	73	57	69	73
Sound power inlet + radiated (Lw)	dB(A)	61	70	73	60	72	75	60	72	75
Sound pressure level outlet (Lp) (1)	dB(A)	49	58	62	48	60	64	48	60	64
Sound pressure level inlet + radiated (Lp) (1)	dB(A)	52	61	64	51	63	66	51	63	66
Plenum code		9034240	9034240	9034240	9034280	9034280	9034280	9034280	9034280	9034280

⁽¹⁾ The sound pressure levels are 9 dB (A) lower than the sound power levels, apply to the reverberant field of a 100 m³ room and a reverberation time of 0.5 sec.

4 AND 6 ROW COIL UNIT WITH 1 OR 2 ADDITIONAL ROW COIL

The following standard rating conditions are used:

COOLING

Entering air temperature: + 27 °C d.b. + 19 °C w.b.

Water temperature: +7 °C E.W.T. +12 °C L.W.T.

HEATING

Entering air temperature: + 20 °C

Water temperature: +65 °C E.W.T. +55 °C L.W.T.

MODEL		INALTO HPS-ECM 14÷1			INALTO HPS-ECM 24÷1			INALTO HPS-ECM 34÷1			INALTO HPS-ECM 44÷1		
INVERTER SPEED SIGNAL (VDC)		4,5	7	9	4	6	8	4,5	6,5	8	5,5	7,5	10
		MIN	MED	MAX	MIN	MED	MAX	MIN	MED	MAX	MIN	MED	MAX
Air flow	m³/h	750	1040	1250	920	1340	1750	1350	1920	2350	1810	2400	3040
Available pressure	Pa	26	50	72	24	50	85	25	50	75	28	50	80
Cooling total emission	kW	4,04	4,94	5,46	5,36	6,79	7,87	7,76	9,59	10,70	10,36	12,27	13,90
Cooling sensible emission	kW	3,14	4,01	4,55	4,01	5,30	6,35	5,83	7,51	8,61	7,79	9,53	11,13
Heating emission	kW	3,43	4,18	4,62	4,33	5,42	6,25	5,90	7,20	8,02	8,06	9,48	10,75
Dp Cooling	kPa	4,6	6,8	8,3	7,5	11,6	15,5	11,4	17,1	21,2	12,0	16,6	21,4
Dp Heating	kPa	9,4	13,4	16,0	13,6	20,4	26,4	9,9	14,3	17,3	19,6	26,3	33,0
Fan	W	40	88	144	44	115	225	80	200	340	110	253	530
Sound power outlet (Lw)	dB(A)	45	52	59	45	55	61	52	60	64	55	62	67
Sound power inlet + radiated (Lw)	dB(A)	48	55	61	48	57	63	55	62	66	58	64	69
Sound pressure level outlet (Lp) (1)	dB(A)	36	43	50	36	46	52	43	51	55	46	53	58
Sound pressure level inlet + radiated (Lp) (1)	dB(A)	39	46	52	39	48	54	46	53	57	49	55	60
Plenum code		9034200	9034200	9034200	9034200	9034200	9034200	9034220	9034220	9034220	9034230	9034230	9034230

MODEL		INALTO HPS-ECM 54÷1			INALTO HPS-ECM 64÷2			INALTO HPS-ECM 66÷2		
INVERTER SPEED SIGNAL (VDC)		3	5	7	3	6	9	3	6	9
		MIN	MED	MAX	MIN	MED	MAX	MIN	MED	MAX
Air flow	m³/h	2380	3300	3860	2790	4235	5140	2750	4190	5090
Available pressure	Pa	26	50	68	21	50	73	22	50	74
Cooling total emission	kW	13,66	16,62	18,00	16,77	21,71	24,10	20,08	26,91	30,34
Cooling sensible emission	kW	10,39	13,19	14,58	12,72	17,59	20,09	14,26	20,13	23,20
Heating emission	kW	10,53	12,67	13,77	23,20	30,58	34,54	22,98	30,38	34,35
Dp Cooling	kPa	11,2	16,3	19,4	15,7	25,4	31,4	20,8	35,9	45,4
Dp Heating	kPa	18,5	25,7	29,9	20,1	33,2	41,3	19,8	32,8	40,8
Fan	W	168	384	695	110	343	661	115	352	678
Sound power outlet (Lw)	dB(A)	58	67	71	57	69	73	57	69	73
Sound power inlet + radiated (Lw)	dB(A)	61	70	73	60	72	75	60	72	75
Sound pressure level outlet (Lp) (1)	dB(A)	49	58	62	48	60	64	48	60	64
Sound pressure level inlet + radiated (Lp) (1)	dB(A)	52	61	64	51	63	66	51	63	66
Plenum code		9034240	9034240	9034240	9034280	9034280	9034280	9034280	9034280	9034280

⁽¹⁾ The sound pressure levels are 9 dB (A) lower than the sound power levels, apply to the reverberant field of a 100 m³ room and a reverberation time of 0.5 sec.

MAIN PERFORMANCES AND TECHNICAL CHARACTERISTICS

3 ROW COIL - 2 PIPE UNITS

The following standard rating conditions are used:

COOLING

Entering air temperature: + 27 °C d.b. + 19 °C w.b.

Water temperature: +7 °C E.W.T. +12 °C L.W.T.

HEATING

Entering air temperature: + 20 °C

Water temperature: +45 °C E.W.T. +40 °C L.W.T.

Available pressure: 0 Pa

MODEL		INALTO HPS-ECM 13					INALTO HPS-ECM 23					INALTO HPS-ECM 33				
INVERTER SPEED SIGNAL (VDC)		1	3	5	7,5	10	1	3	5	7,5	10	1	3	5	7,5	10
Air flow	m³/h	505	950	1280	1580	1800	640	970	1375	2030	2625	760	1190	1750	2565	3390
Cooling total emission	kW	3,00	4,05	4,78	5,33	5,69	3,70	4,82	5,91	7,22	8,12	4,54	6,05	7,57	9,21	10,41
Cooling sensible emission	kW	2,37	3,44	4,22	4,88	5,33	2,78	3,79	4,83	6,27	7,38	3,36	4,71	6,16	7,94	9,42
Heating emission	kW	3,42	4,93	6,08	7,01	7,63	3,97	5,46	7,05	9,23	10,92	4,75	6,71	8,89	11,57	13,88
Dp Cooling	kPa	4,5	7,8	10,7	13,1	14,9	6,4	10,4	15,1	22,3	28,6	6,6	11,1	16,9	24,8	32,4
Dp Heating	kPa	4,3	8,3	12,1	15,7	18,3	5,4	9,6	15,2	24,8	33,6	5,3	9,9	16,5	26,6	36,9
Fan	W	10	27	57	94	148	12	29	65	188	362	13	30	83	256	531
Sound power (Lw)	dB(A)	35,0	44,0	49,0	56,0	60,0	39,0	46,0	53,0	61,0	69,0	41,0	48,0	56,0	64,0	70,0
Sound pressure (Lp) (1)	dB(A)	26,0	35,0	40,0	47,0	51,0	30,0	37,0	44,0	52,0	60,0	32,0	39,0	47,0	55,0	61,0

MODEL		INALTO HPS-ECM 43					INALTO HPS-ECM 53				
INVERTER SPEED SIGNAL (VDC)		1	3	5	7,5	10	1	3	5	7,5	10
Air flow	m³/h	745	1275	1890	2730	3535	1495	2605	3580	4400	5160
Cooling total emission	kW	4,83	6,99	8,89	10,84	12,26	8,60	12,13	14,37	15,83	16,90
Cooling sensible emission	kW	3,48	5,29	7,01	8,98	10,56	6,52	9,93	12,16	13,86	15,22
Heating emission	kW	5,17	8,01	10,84	14,15	16,91	9,71	14,92	18,77	21,62	24,04
Dp Cooling	kPa	5,0	9,8	15,3	22,4	28,9	8,8	16,6	23,2	28,4	33,2
Dp Heating	kPa	3,2	7,2	12,4	20,2	27,8	8,8	19,3	29,2	37,8	45,9
Fan	W	12	30	76	219	484	41	139	340	636	1020
Sound power (Lw)	dB(A)	39,0	48,0	56,0	64,0	69,0	48,0	61,0	70,0	75,0	79,0
Sound pressure (Lp) (1)	dB(A)	30,0	39,0	47,0	55,0	60,0	39,0	52,0	61,0	66,0	70,0

(1) The sound pressure levels are 9 dB(A) lower than the sound power levels, apply to the reverberant field of a 100 m³ room and a reverberation time of 0.5 sec.

4 ROW COIL - 2 PIPE UNITS

The following standard rating conditions are used:

COOLING

Entering air temperature: + 27 °C d.b. + 19 °C w.b.
Water temperature: +7 °C E.W.T. +12 °C L.W.T.

HEATING

Entering air temperature: + 20 °C
Water temperature: +45 °C E.W.T. +40 °C L.W.T.

Available pressure: 0 Pa

MODEL		INALTO HPS-ECM 14					INALTO HPS-ECM 24					INALTO HPS-ECM 34				
INVERTER SPEED SIGNAL (VDC)		1	3	5	7,5	10	1	3	5	7,5	10	1	3	5	7,5	10
Air flow	m³/h	460	870	1190	1520	1750	620	930	1345	1980	2580	740	1170	1720	2525	3290
Cooling total emission	kW	2,90	4,46	5,39	6,17	6,64	4,09	5,42	6,85	8,50	9,67	5,13	7,09	9,08	11,24	12,79
Cooling sensible emission	kW	2,16	3,57	4,47	5,32	5,86	2,97	4,09	5,36	7,02	8,32	3,67	5,29	7,03	9,16	10,87
Heating emission	kW	3,33	5,65	7,22	8,67	9,59	4,51	6,36	8,56	11,48	13,90	5,19	7,57	10,23	13,59	16,36
Dp Cooling	kPa	2,5	5,5	7,8	10,1	11,6	4,5	7,6	11,7	17,6	23,0	5,3	9,6	15,1	22,9	29,9
Dp Heating	kPa	2,4	6,2	9,7	13,5	16,2	4,0	7,4	12,7	21,7	30,6	4,0	8,0	13,8	23,1	32,2
Fan	W	10	26	55	104	154	12	25	65	183	371	13	30	85	264	541
Sound power (Lw)	dB(A)	35,0	44,0	49,0	56,0	60,0	39,0	46,0	53,0	61,0	69,0	41,0	48,0	56,0	64,0	70,0
Sound pressure (Lp) (1)	dB(A)	26,0	35,0	40,0	47,0	51,0	30,0	37,0	44,0	52,0	60,0	32,0	39,0	47,0	55,0	61,0

MODEL		INALTO HPS-ECM 44					INALTO HPS-ECM 54					INALTO HPS-ECM 64				
INVERTER SPEED SIGNAL (VDC)		1	3	5	7,5	10	1	3	5	7,5	10	1	3	5	7,5	10
Air flow	m³/h	730	1250	1860	2690	3475	1480	2580	3550	4355	5095	1740	2900	3965	4940	5945
Cooling total emission	kW	5,39	8,09	10,58	13,18	15,06	9,89	14,43	17,43	19,41	20,88	12,05	17,22	20,95	23,74	26,11
Cooling sensible emission	kW	3,78	5,91	7,99	10,42	12,33	7,21	11,24	14,00	16,07	17,73	8,68	13,29	16,83	19,69	22,31
Heating emission	kW	5,53	8,81	12,24	16,33	19,76	10,64	16,85	21,58	25,12	28,13	12,47	19,03	24,31	28,65	32,77
Dp Cooling	kPa	3,6	7,5	12,3	18,8	24,6	6,7	13,5	19,3	23,9	28,1	8,5	16,4	23,6	30,1	36,5
Dp Heating	kPa	2,8	6,5	11,8	19,9	28,1	6,2	14,2	22,2	29,2	35,9	6,8	14,7	22,9	30,9	39,4
Fan	W	12	30	78	226	505	41	144	346	644	1031	28	93	214	442	816
Sound power (Lw)	dB(A)	39,0	48,0	56,0	64,0	69,0	48,0	61,0	70,0	75,0	79,0	47,5	62,0	70,0	74,5	78,0
Sound pressure (Lp) (1)	dB(A)	30,0	39,0	47,0	55,0	60,0	39,0	52,0	61,0	66,0	70,0	38,5	53,0	61,0	65,5	69,0

(1) The sound pressure levels are 9 dB(A) lower than the sound power levels, apply to the reverberant field of a 100 m³ room and a reverberation time of 0.5 sec.

6 ROW COIL - 2 PIPE UNITS

The following standard rating conditions are used:

COOLING

Entering air temperature: + 27 °C d.b. + 19 °C w.b.
Water temperature: +7 °C E.W.T. +12 °C L.W.T.

HEATING

Entering air temperature: + 20 °C
Water temperature: +45 °C E.W.T. +40 °C L.W.T.

MODEL		INALTO HPS-ECM 66				
INVERTER SPEED SIGNAL (VDC)		1	3	5	7,5	10
Air flow	m³/h	1725	2880	3940	4910	5905
Cooling total emission	kW	14,00	20,80	25,92	29,83	33,24
Cooling sensible emission	kW	9,58	15,02	19,28	22,75	25,94
Heating emission	kW	13,37	21,04	27,39	32,73	37,81
Dp Cooling	kPa	10,7	22,2	33,3	43,5	53,8
Dp Heating	kPa	7,5	17,1	27,6	38,2	49,6
Fan	W	28	97	222	453	839
Sound power (Lw)	dB(A)	47,5	62,0	70,0	74,5	78,0
Sound pressure (Lp) (1)	dB(A)	38,5	53,0	61,0	65,5	69,0

(1) The sound pressure levels are 9 dB(A) lower than the sound power levels, apply to the reverberant field of a 100 m³ room and a reverberation time of 0.5 sec.

3+1 ROW COIL - 4 PIPE UNITS

The following standard rating conditions are used:

COOLING

Entering air temperature: + 27 °C d.b. + 19 °C w.b.

Water temperature: +7 °C E.W.T. +12 °C L.W.T.

HEATING

Entering air temperature: + 20 °C

Water temperature: +65 °C E.W.T. +55 °C L.W.T.

Available pressure: 0 Pa

MODEL		INALTO HPS-ECM 13+1					INALTO HPS-ECM 23+1					INALTO HPS-ECM 33+1				
INVERTER SPEED SIGNAL (VDC)		1	3	5	7,5	10	1	3	5	7,5	10	1	3	5	7,5	10
Air flow	m³/h	460	870	1190	1520	1750	620	930	1345	1980	2580	740	1170	1720	2525	3290
Cooling total emission	kW	2,57	3,83	4,58	5,18	5,55	3,62	4,70	5,83	7,12	8,03	4,45	5,98	7,49	9,11	10,22
Cooling sensible emission	kW	1,98	3,21	3,99	4,71	5,17	2,71	3,68	4,76	6,16	7,27	3,29	4,65	6,08	7,83	9,19
Heating emission	kW	2,51	3,76	4,50	5,13	5,52	3,36	4,35	5,43	6,67	7,61	4,03	5,40	6,78	8,31	9,50
Dp Cooling	kPa	3,4	7,1	9,8	12,6	14,4	6,1	9,9	14,8	21,9	28,1	6,4	10,9	16,6	24,5	31,5
Dp Heating	kPa	5,3	11,1	15,3	19,3	22,1	8,6	13,8	20,5	29,7	37,5	5,0	8,5	12,9	18,5	23,4
Fan	W	10	26	55	104	154	12	25	65	183	371	13	30	85	264	541
Sound power (Lw)	dB(A)	35,0	44,0	49,0	56,0	60,0	39,0	46,0	53,0	61,0	69,0	41,0	48,0	56,0	64,0	70,0
Sound pressure (Lp) (1)	dB(A)	26,0	35,0	40,0	47,0	51,0	30,0	37,0	44,0	52,0	60,0	32,0	39,0	47,0	55,0	61,0

MODEL		INALTO HPS-ECM 43+1					INALTO HPS-ECM 53+1				
INVERTER SPEED SIGNAL (VDC)		1	3	5	7,5	10	1	3	5	7,5	10
Air flow	m³/h	730	1250	1860	2690	3475	1480	2580	3550	4355	5095
Cooling total emission	kW	4,76	6,91	8,81	10,75	12,12	8,54	12,04	14,31	15,74	16,80
Cooling sensible emission	kW	3,43	5,22	6,92	8,89	10,40	6,47	9,85	12,09	13,75	15,08
Heating emission	kW	4,50	6,39	8,20	10,07	11,52	7,79	11,05	13,17	14,69	15,93
Dp Cooling	kPa	4,9	9,6	15,1	22,1	28,5	8,7	16,5	23,0	28,2	32,9
Dp Heating	kPa	6,8	12,9	20,2	29,4	37,4	10,7	20,1	27,6	33,6	38,8
Fan	W	12	30	78	226	505	41	144	346	644	1031
Sound power (Lw)	dB(A)	39,0	48,0	56,0	64,0	69,0	48,0	61,0	70,0	75,0	79,0
Sound pressure (Lp) (1)	dB(A)	30,0	39,0	47,0	55,0	60,0	39,0	52,0	61,0	66,0	70,0

⁽¹⁾ The sound pressure levels are 9 dB(A) lower than the sound power levels, apply to the reverberant field of a 100 m³ room and a reverberation time of 0.5 sec.

4+1 ROW COIL - 4 PIPE UNITS

The following standard rating conditions are used:

COOLING

Entering air temperature: + 27 °C d.b. + 19 °C w.b.
Water temperature: +7 °C E.W.T. +12 °C L.W.T.

HEATING

Entering air temperature: + 20 °C
Water temperature: +65 °C E.W.T. +55 °C L.W.T.

MODEL		INALTO HPS-ECM 14÷1					INALTO HPS-ECM 24÷1					INALTO HPS-ECM 34÷1				
INVERTER SPEED SIGNAL (VDC)		1	3	5	7,5	10	1	3	5	7,5	10	1	3	5	7,5	10
Air flow	m³/h	420	810	1130	1475	1710	600	900	1320	1945	2542	710	1150	1690	2492	3215
Cooling total emission	kW	2,71	4,26	5,22	6,06	6,54	4,00	5,30	6,77	8,40	9,59	4,97	7,00	8,97	11,15	12,61
Cooling sensible emission	kW	2,00	3,38	4,29	5,19	5,75	2,89	3,99	5,28	6,92	8,23	3,54	5,21	6,93	9,07	10,67
Heating emission	kW	2,36	3,60	4,37	5,05	5,45	3,29	4,27	5,38	6,61	7,55	3,92	5,34	6,73	8,26	9,38
Dp Cooling	kPa	2,2	5,1	7,4	9,8	11,5	4,3	7,3	11,4	17,3	22,6	5,0	9,4	14,8	22,6	29,2
Dp Heating	kPa	4,8	10,2	14,5	18,8	21,6	8,3	13,3	20,1	29,2	37,0	4,8	8,3	12,6	18,3	23,0
Fan	W	10	25	64	117	158	12	25	66	182	377	13	31	87	268	544
Sound power (Lw)	dB(A)	35,0	44,0	49,0	56,0	60,0	39,0	46,0	53,0	61,0	69,0	41,0	48,0	56,0	64,0	70,0
Sound pressure (Lp) (1)	dB(A)	26,0	35,0	40,0	47,0	51,0	30,0	37,0	44,0	52,0	60,0	32,0	39,0	47,0	55,0	61,0

MODEL		INALTO HPS-ECM 44÷1					INALTO HPS-ECM 54÷1				
INVERTER SPEED SIGNAL (VDC)		1	3	5	7,5	10	1	3	5	7,5	10
Air flow	m³/h	720	1230	1835	2660	3425	1460	2555	3525	4315	5045
Cooling total emission	kW	5,33	8,00	10,48	13,10	14,92	9,79	14,34	17,35	19,31	20,74
Cooling sensible emission	kW	3,74	5,83	7,91	10,33	12,19	7,13	11,16	13,91	15,95	17,58
Heating emission	kW	4,45	6,32	8,13	10,02	11,43	7,72	11,00	13,12	14,62	15,85
Dp Cooling	kPa	3,5	7,4	12,1	18,6	24,2	6,0	12,2	17,6	21,8	25,6
Dp Heating	kPa	6,7	12,7	19,9	29,1	36,8	10,5	20,0	27,4	33,3	38,5
Fan	W	13	31	79	231	518	41	148	355	650	1036
Sound power (Lw)	dB(A)	39,0	48,0	56,0	64,0	69,0	48,0	61,0	70,0	75,0	79,0
Sound pressure (Lp) (1)	dB(A)	30,0	39,0	47,0	55,0	60,0	39,0	52,0	61,0	66,0	70,0

(1) The sound pressure levels are 9 dB(A) lower than the sound power levels, apply to the reverberant field of a 100 m³ room and a reverberation time of 0.5 sec.

4+2 ROW COIL - 4 PIPE UNITS

The following standard rating conditions are used:

COOLING

Entering air temperature: + 27 °C d.b. + 19 °C w.b.
Water temperature: +7 °C E.W.T. +12 °C L.W.T.

HEATING

Entering air temperature: + 20 °C
Water temperature: +65 °C E.W.T. +55 °C L.W.T.

Available pressure: 0 Pa

MODEL		INALTO HPS-ECM 14+2					INALTO HPS-ECM 24+2					INALTO HPS-ECM 34+2				
INVERTER SPEED SIGNAL (VDC)		1	3	5	7,5	10	1	3	5	7,5	10	1	3	5	7,5	10
Air flow	m³/h	400	740	1055	1405	1650	570	865	1285	1895	2485	690	1125	1645	2441	3120
Cooling total emission	kW	2,65	4,08	5,11	6,00	6,54	3,90	5,24	6,78	8,45	9,68	4,86	6,90	8,82	11,01	12,42
Cooling sensible emission	kW	1,94	3,20	4,16	5,10	5,71	2,80	3,92	5,26	6,92	8,27	3,46	5,12	6,79	8,93	10,45
Heating emission	kW	4,49	7,16	9,16	11,07	12,26	6,37	8,75	11,61	15,03	17,83	7,69	11,13	14,57	18,89	22,02
Dp Cooling	kPa	2,1	4,7	7,1	9,6	11,4	4,1	7,1	11,4	17,5	23,0	4,8	9,1	14,4	22,1	28,4
Dp Heating	kPa	3,2	7,4	11,6	16,3	19,6	7,0	12,5	20,9	33,4	45,5	3,8	7,4	12,0	19,3	25,4
Fan	W	9	24	52	110	164	12	26	67	182	382	13	31	89	274	542
Sound power (Lw)	dB(A)	35,0	44,0	49,0	56,0	60,0	39,0	46,0	53,0	61,0	69,0	41,0	48,0	56,0	64,0	70,0
Sound pressure (Lp) (1)	dB(A)	26,0	35,0	40,0	47,0	51,0	30,0	37,0	44,0	52,0	60,0	32,0	39,0	47,0	55,0	61,0

MODEL		INALTO HPS-ECM 44+2					INALTO HPS-ECM 54+2					INALTO HPS-ECM 64+2				
INVERTER SPEED SIGNAL (VDC)		1	3	5	7,5	10	1	3	5	7,5	10	1	3	5	7,5	10
Air flow	m³/h	700	1200	1800	2612	3355	1450	2525	3485	4260	4970	1700	2870	3925	4895	5885
Cooling total emission	kW	5,21	7,85	10,34	12,96	14,75	9,74	14,22	17,22	19,13	20,56	12,02	17,45	21,26	24,14	26,58
Cooling sensible emission	kW	3,65	5,72	7,78	10,19	12,00	7,09	11,06	13,78	15,77	17,38	8,61	13,38	16,97	19,88	22,53
Heating emission	kW	8,35	12,75	17,20	22,18	26,11	15,42	23,10	28,66	32,65	35,93	16,34	23,65	29,13	33,50	37,50
Dp Cooling	kPa	2,8	5,9	9,9	15,1	19,7	6,0	12,0	17,4	21,5	25,2	8,5	16,8	24,3	31,0	37,8
Dp Heating	kPa	5,6	12,0	20,6	32,8	44,1	9,6	19,9	29,5	37,3	44,4	10,6	20,8	30,4	39,1	47,9
Fan	W	13	32	81	237	529	42	152	363	656	1042	29	98	227	459	850
Sound power (Lw)	dB(A)	39,0	48,0	56,0	64,0	69,0	48,0	61,0	70,0	75,0	79,0	47,5	62,0	70,0	74,5	78,0
Sound pressure (Lp) (1)	dB(A)	30,0	39,0	47,0	55,0	60,0	39,0	52,0	61,0	66,0	70,0	38,5	53,0	61,0	65,5	69,0

(1) The sound pressure levels are 9 dB(A) lower than the sound power levels, apply to the reverberant field of a 100 m³ room and a reverberation time of 0.5 sec.

6+2 ROW COIL - 4 PIPE UNITS

The following standard rating conditions are used:

COOLING

Entering air temperature: + 27 °C d.b. + 19 °C w.b.
Water temperature: +7 °C E.W.T. +12 °C L.W.T.

HEATING

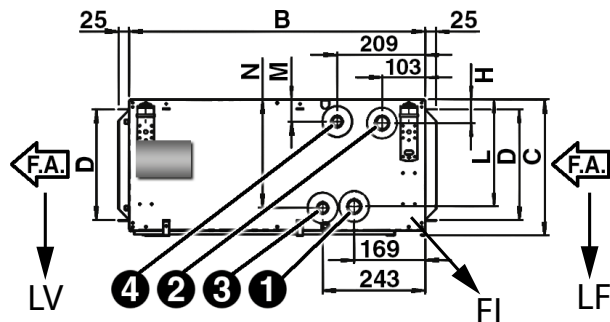
Entering air temperature: + 20 °C
Water temperature: +65 °C E.W.T. +55 °C L.W.T.

MODEL		INALTO HPS-ECM 66+2				
INVERTER SPEED SIGNAL (VDC)		1	3	5	7,5	10
Air flow	m³/h	1685	2845	3900	4865	5840
Cooling total emission	kW	13,72	20,61	25,72	29,65	32,95
Cooling sensible emission	kW	9,38	14,87	19,11	22,58	25,67
Heating emission	kW	16,22	23,53	29,03	33,37	37,34
Dp Cooling	kPa	10,4	21,8	32,9	43,0	53,2
Dp Heating	kPa	10,5	20,6	30,2	38,8	47,4
Fan	W	30	103	233	469	872
Sound power (Lw)	dB(A)	47,5	62,0	70,0	74,5	78,0
Sound pressure (Lp) (1)	dB(A)	38,5	53,0	61,0	65,5	69,0

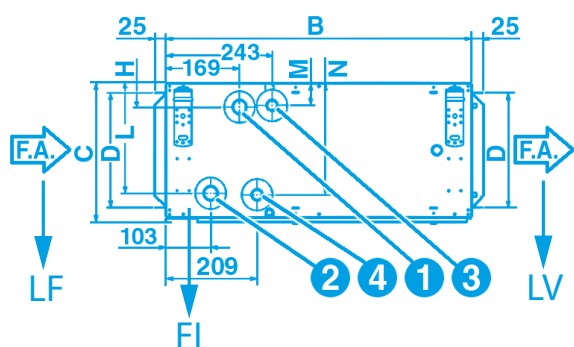
(1) The sound pressure levels are 9 dB(A) lower than the sound power levels, apply to the reverberant field of a 100 m³ room and a reverberation time of 0.5 sec.

DIMENSION, WEIGHT AND WATER CONTENT

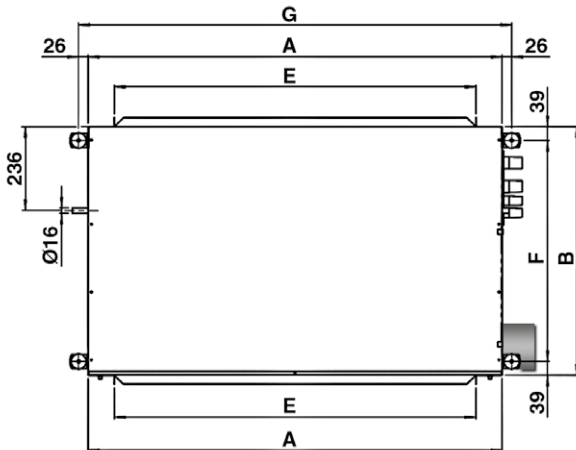
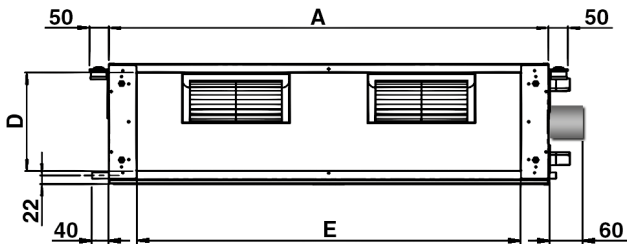
LEFT CONFIGURATION (STANDARD)



RIGHT CONFIGURATION (ON DEMAND)



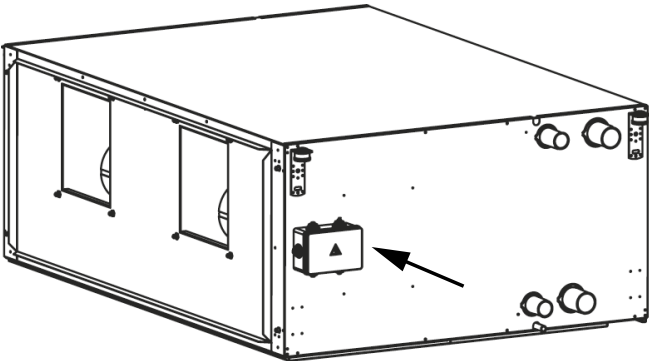
- 1 = main coil water inlet
- 2 = main coil water outlet
- 3 = additional coil water inlet
- 4 = additional coil water outlet
- LV = fan side (outlet)
- FI = filter
- LF = filter side (inlet)
- F.A. = air flow



STANDARD



WIRING TERMINAL BOARD



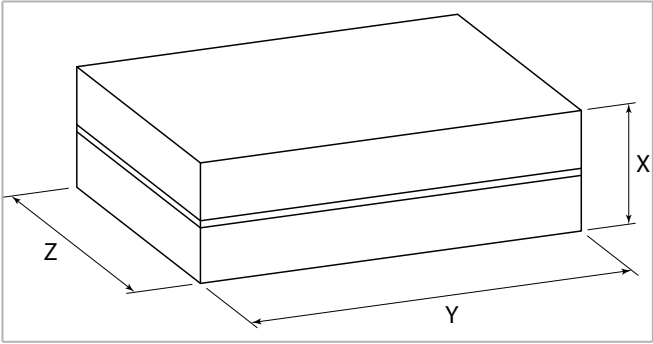
DIMENSIONS

MODEL		INALTO HPS-ECM 1	INALTO HPS-ECM 2	INALTO HPS-ECM 3	INALTO HPS-ECM 4	INALTO HPS-ECM 5	INALTO HPS-ECM 6
A	mm	1133	1133	1133	1445	1445	1535
B	mm	698	698	698	853	853	1100
C	mm	310	310	360	360	435	488
D	mm	255	255	305	293	368	421
E	mm	991	991	991	1302	1302	1393
F	mm	620	620	620	775	775	1022
G	mm	1185	1185	1185	1497	1497	1587
H	mm	54	54	54	58	58	59
L	mm	245	245	295	291	367	416
M	mm	50	50	50	54	54	55
N	mm	249	249	299	295	370	421

COIL CONNECTIONS

MODEL	POS.	1	2	3	4	5	6
Main coil inlet	1	3/4"	1"	1"	1 1/4"	1 1/4"	1 1/4"
Main coil outlet	2	3/4"	1"	1"	1 1/4"	1 1/4"	1 1/4"
Additional coil inlet	3	3/4"	3/4"	3/4"	1"	1"	1"
Additional coil outlet	4	3/4"	3/4"	3/4"	1"	1"	1"

PACKED UNIT



MODEL		INALTO HPS-ECM 1	INALTO HPS-ECM 2	INALTO HPS-ECM 3	INALTO HPS-ECM 4	INALTO HPS-ECM 5	INALTO HPS-ECM 6
X	mm	330		380		455	505
Y	mm	1290			1605		1695
Z	mm	805			960		1207

WEIGHT

Weight without packaging

MODEL	INALTO HPS-ECM 1	INALTO HPS-ECM 2	INALTO HPS-ECM 3	INALTO HPS-ECM 4	INALTO HPS-ECM 5	INALTO HPS-ECM 6
3 rows	45	46	54	75	85	-
3+1 rows	48	50	58	80	90	-
3+2 rows	50	52	60	83	94	-
4 rows	47	48	56	78	88	124
4+1 rows	50	51	60	83	94	-
4+2 rows	51	53	62	86	98	134
6 rows	-	-	-	-	-	130
6+2 rows	-	-	-	-	-	140

Weight with packaging

MODEL	INALTO HPS-ECM 1	INALTO HPS-ECM 2	INALTO HPS-ECM 3	INALTO HPS-ECM 4	INALTO HPS-ECM 5	INALTO HPS-ECM 6
3 rows	48	49	57	79	89	-
3+1 rows	51	53	61	84	94	-
3+2 rows	53	55	63	87	98	-
4 rows	50	51	59	82	92	127
4+1 rows	53	54	63	87	98	-
4+2 rows	54	56	65	90	102	137
6 rows	-	-	-	-	-	133
6+2 rows	-	-	-	-	-	143

