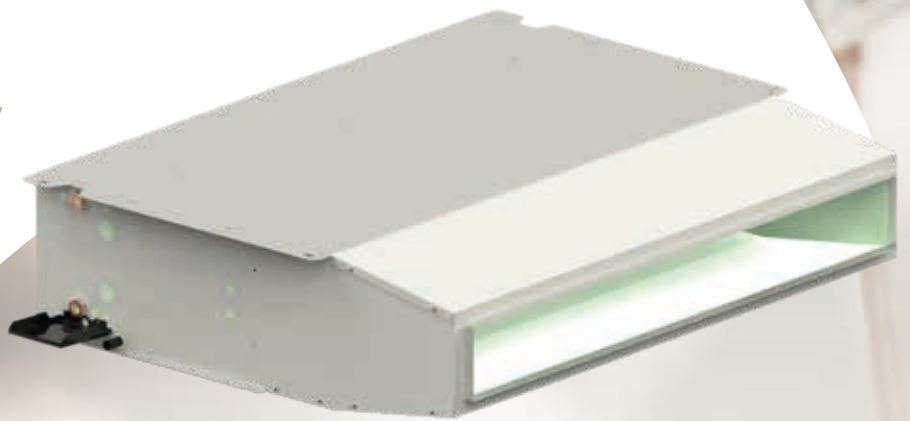




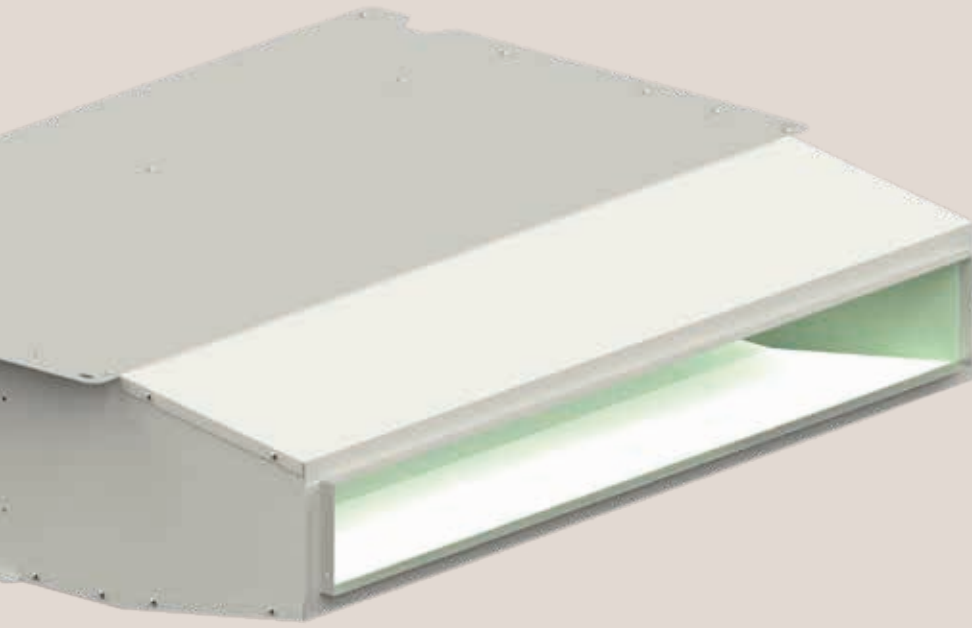
LNH-A

FAN COIL UNITS
WITH SILENCED
PLENUM
FOR HOTELS,
HOSPITALS,
HOMES



SOMETHING DIFFERENT

GB



LNH-A

FAN COIL UNITS WITH SILENCED PLENUM FOR HOTELS, HOSPITALS, HOMES

LNH-A is designed to obtain the maximum energy comfort and maximum performance in sound level hardly reachable with standard terminal units (split, fancoils).

The solution created allows to reduce the natural turbulence of the convective air flow. By compulsorily integrating a properly insulated silencer into the unit, extremely low sound levels are achieved, making it suitable for installation in hotel rooms ("LOW NOISE HOTEL").

Their performances make it the ideal product for every kind of installations that have to ensure the best respect of strictly sound level rules of installations.

VERY LOW-NOISE

EXTREMELY LOW NOISE THANKS TO ITS TECHNICAL SOLUTIONS: THE EFFECTIVE DESIGN OF THE SILENCED PLENUM AND THE USE OF A SPECIAL HIGH SOUND-ABSORBING INSULATION MATERIAL. THE FAN AND SILENCER SECTIONS ARE INSULATED WITH 25MM THICK OF POLYESTER FIBRE. THE COIL AND THE MAIN DRAIN PAN ARE INSULATED WITH POLYETHYLENE WITH 3 MM OF THICKNESS. THE NOISE ATTENUATION IS REACHING -7/9 DB(A) OF SOUND POWER COMPARED TO STD FANCOILS.

ADVANCED CONTROL

ADVANCED CONTROL ENABLES TO MANAGE MASTER/SLAVE COMBINATIONS OF UP TO 24 UNITS AND TO USE WALL MOUNTED OR REMOTE CONTROLS.

BMS COMPATIBLE

POSSIBILITY OF CONTROLLING UP TO 240 UNITS WITH OUR TOP3 MULTIFUNCTIONAL DIGITAL THERMOSTAT AND MODBUS PROTOCOL SP3 BOARD, ALSO IN COMBINATION WITH ALL AERTESI TERMINAL UNITS.

ECO-FRIENDLY

THE INSULATING MATERIAL OF THE SILENCER PLENUM AND OF THE FAN IS MADE WITH 100% RECYCLABLE ECOLOGICAL MATERIAL. THE THERMO-ACOUSTIC INSULATION IS PROTECTED FROM MOISTURE AND DUST BY A SURFACE TREATMENT WHICH MAKES IT PARTICULARLY SMOOTH AND COMPACT, PREVENTING THE SHEEDING OF FIBRES INTO THE AIR.

ACCESSIBILITY

LNH-A IS DESIGNED FOR AN EASY INSTALLATION AND MAINTENANCE:

- THE FLANGES INCLUDED AS STD IN THE INLET/OUTLET FRAME ARE PERMITTING THE EASY INSTALLATION TO THE DUCTED.
- THE FAN, AS WELL AS THE MAIN TANK AND THE COIL, CAN BE INSPECTED AND REMOVED WITH THE SAME PROCEDURE.
- THE ELECTRICAL PANEL IS ON THE SAME SIDE OF THE HYDRAULIC CONNECTORS TO IMPROVE THE ACCESSIBILITY.

WIDE RANGE

THANKS TO OUR 5 SIZES WE CAN REACH MORE THAN 8 KW AT MAXIMUM SPEED OF COOLING CAPACITY.



COOLING

0.8/10.9 kw



HEATING

0.7/12.0 kw



AIR FLOW

90-2029 m³/h



CONSUMPTION REDUCED UP TO

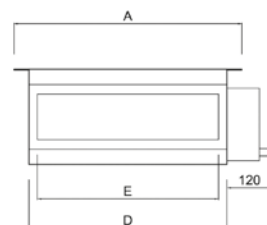
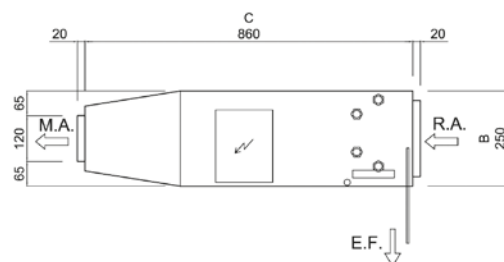
45%



DIMENSIONAL DWGS

SIZE	A	B	C	D	E	WEIGHT Kg
3	600	250	860	520	475	25
6	860	250	860	780	735	33
8	1120	250	860	1040	995	42
12	1120	250	860	1040	995	42
15	1380	250	860	1300	1255	46

A = length mm
B = height mm
C = depth mm



LNH-A AC



AC MOTOR 2-PIPE SYSTEM

		3			6			8			12			15		
		4 rows			4 rows			4 rows			4 rows			4 rows		
SPEED		min	med	max	min	med	max	min	med	max	min	med	max	min	med	max
Air flow	m3/h	191	313	361	308	495	577	439	708	835	719	1131	1263	1036	1376	1522

COOLING - air 27°C dry bulb, 19°C wet bulb - water inlet 7°C, outlet 12°C

Total capacity	kW	1,44	2,14	2,39	2,11	3,08	3,47	3,32	4,86	5,50	4,92	6,88	7,44	6,72	8,30	8,88
Sensitive capacity	kW	1,01	1,54	1,73	1,48	2,22	2,53	2,31	3,48	3,98	3,52	5,09	5,54	4,89	6,17	6,68
Water flow rate	l/h	249	372	415	366	537	604	577	848	962	858	1204	1302	1175	1453	1554
Δp (water)	kPa	8,7	18,3	22,5	4,0	8,1	10,9	10,9	22,2	28,1	22,7	42,6	49,4	18,5	27,6	31,3

HEATING - air 20°C - water inlet 45°C, outlet 40°C

Capacity	kW	1,39	2,16	2,44	2,04	3,15	3,59	3,19	4,89	5,64	4,95	7,29	7,98	7,00	8,89	9,65
Water flow rate	l/h	237	369	416	350	537	614	544	833	961	844	1240	1356	1191	1512	1641
Δp (water)	kPa	7,1	16,2	20,4	3,3	7,3	9,4	8,7	19,25	25,15	19,8	40,6	48,0	17,3	27,2	31,7

MOTOR ELECTRIC POWER DRAW

Power draw	W	15	28	32	21	36	43	44	73	89	68	116	137	120	146	157
Max power draw	A	0,19			0,24			0,47			0,74			0,85		

SOUND DATA

Return + radiated sound power	dB(A)	32	39	42	29	36	40	32	41	45	40	51	54	47	54	56
Return + radiated sound pressure (*)	dB(A)	20	27	30	17	24	28	20	29	33	26	37	40	33	40	42
Delivery sound power	dB(A)	29	36	39	26	33	37	29	38	42	37	48	51	44	51	53
Delivery sound pressure (*)	dB(A)	17	24	27	14	21	25	17	26	30	23	34	37	30	37	39

AC MOTOR 4-PIPE SYSTEM

		3			6			8			12			15		
		4 rows			4 rows			4 rows			4 rows			4 rows		
SPEED		min	med	max	min	med	max	min	med	max	min	med	max	min	med	max
Air flow	m3/h	191	313	361	308	495	577	439	708	835	719	1131	1263	1036	1376	1522

COOLING - air 27°C dry bulb, 19°C wet bulb - water inlet 7°C, outlet 12°C

Total capacity	kW	1,44	2,14	2,39	2,11	3,08	3,47	3,32	4,86	5,50	4,92	6,88	7,44	6,72	8,30	8,88
Sensitive capacity	kW	1,01	1,54	1,73	1,48	2,22	2,53	2,31	3,48	3,98	3,52	5,09	5,54	4,89	6,17	6,68
Water flow rate	l/h	249	372	415	366	537	604	577	848	962	858	1204	1302	1175	1453	1554
Δp (water)	kPa	8,7	18,3	22,5	4,0	8,1	10,0	10,9	22,2	28,1	22,7	42,6	49,4	18,5	27,6	31,3

HEATING - air 20°C - water inlet 45°C, outlet 40°C

Capacity	kW	1,26	1,80	1,99	1,95	2,77	3,09	2,89	4,09	4,60	4,13	5,55	5,97	5,86	6,98	7,45
Water flow rate	l/h	108	155	171	168	238	266	248	350	393	354	473	508	501	595	636
Δp (water)	kPa	3,2	6,3	7,7	9,05	17,4	21,4	5,7	10,9	13,6	11,2	19,5	22,3	23,5	32,7	37,1

MOTOR ELECTRIC POWER DRAW

Power draw	W	15	28	32	21	36	43	44	73	89	68	116	137	120	146	157
Max power draw	A	0,19			0,24			0,47			0,74			0,75		

SOUND DATA

Return + radiated sound power	dB(A)	32	39	42	29	36	40	32	41	45	40	51	54	47	54	56
Return + radiated sound pressure (*)	dB(A)	20	27	30	17	24	28	20	29	33	26	37	40	33	40	42
Delivery sound power	dB(A)	29	36	39	26	33	37	29	38	42	37	48	51	44	51	53
Delivery sound pressure (*)	dB(A)	17	24	27	14	21	25	17	26	30	23	34	37	30	37	39

(*) Values given as a guideline for units with non-ducted intake and with ducted discharge, and for room and installation attenuation of 12 dB (size 3 to 8) and 14 dB (size 12).

LNH-A EC

EC MOTOR 2-PIPE SYSTEM

		3			6			8			12			15		
		4 rows			4 rows			4 rows			4 rows			4 rows		
SPEED	V	3	4	7	4	5	7	5	7	9	4	5	8	4	6	8
Air flow	m ³ /h	190	236	368	424	499	652	525	681	824	646	811	1231	910	1222	1544
COOLING - air 27°C dry bulb, 19°C wet bulb - water inlet 7°C, outlet 12°C																
Total capacity	kW	1,44	1,72	2,44	2,75	3,13	3,84	3,88	4,76	5,51	4,57	5,45	7,35	6,19	7,69	9,06
Sensitive capacity	kW	1,01	1,22	1,77	1,97	2,27	2,83	2,74	3,41	4,00	3,26	3,95	5,49	4,47	5,69	6,82
Water flow rate	l/h	249	297	421	475	540	663	669	822	952	789	943	1276	1069	1333	1575
Δp (water)	kPa	8,7	12,1	23,1	6,4	8,1	11,9	14,3	21,0	27,5	19,4	27,1	47,5	15,5	23,4	32,1
HEATING - air 20°C - water inlet 45°C, outlet 40°C																
Capacity	kW	1,37	1,67	2,46	2,72	3,14	3,96	3,71	4,68	5,52	4,47	5,45	7,74	6,19	7,98	9,70
Water flow rate	l/h	236	287	423	468	541	682	640	806	950	769	937	1328	1065	1370	1660
Δp (water)	kPa	7,0	10,2	21,0	5,6	7,4	11,4	11,8	18,1	24,7	16,6	24,0	46,1	14,0	22,5	32,4
MOTOR ELECTRIC POWER DRAW																
Power draw	W	7	8	13	10	13	19	13	19	27	18	28	74	29	58	101
Max power draw	A	0,19			0,27			0,26			0,67			1,15		
SOUND DATA																
Return + radiated sound power	dB(A)	31	34	42	33	36	42	35	41	45	39	44	53	44	51	56
Return + radiated sound pressure (*)	dB(A)	19	22	30	21	24	30	23	29	33	25	30	39	30	37	42
Delivery sound power	dB(A)	28	31	39	30	33	39	32	38	42	36	41	50	41	48	53
Delivery sound pressure (*)	dB(A)	16	19	27	18	21	27	20	26	30	22	27	36	27	34	39

EC MOTOR 4-PIPE SYSTEM

		3			6			8			12			15		
		4 rows			4 rows			4 rows			4 rows			4 rows		
SPEED	V	3	4	7	4	5	7	5	7	9	4	5	8	4	6	8
Air flow	m ³ /h	190	236	368	424	499	652	525	681	824	646	811	1231	910	1222	1544
COOLING - air 27°C dry bulb, 19°C wet bulb - water inlet 7°C, outlet 12°C																
Total capacity	kW	1,44	1,72	2,44	2,75	3,13	3,84	3,88	4,76	5,51	4,57	5,45	7,35	6,19	7,69	9,06
Sensitive capacity	kW	1,01	1,22	1,77	1,97	2,27	2,83	2,74	3,41	4,00	3,26	3,95	5,49	4,47	5,69	6,82
Water flow rate	l/h	249	297	421	475	540	663	669	822	952	789	943	1276	1069	1333	1575
Δp (water)	kPa	8,7	12,1	23,1	6,4	8,1	11,9	14,3	21,0	27,5	19,4	27,1	47,5	15,5	23,4	32,1
HEATING - air 20°C - water inlet 65°C, outlet 55°C																
Capacity	kW	1,25	1,46	2,00	2,45	2,75	3,34	3,25	3,93	4,50	3,79	4,45	5,80	5,27	6,37	7,46
Water flow rate	l/h	108	126	173	213	239	290	283	341	390	328	386	500	457	550	642
Δp (water)	kPa	3,2	4,3	7,8	14,1	17,6	25,2	7,25	10,4	13,4	9,6	13,2	21,7	19,7	28,1	37,8
MOTOR ELECTRIC POWER DRAW																
Power draw	W	7	8	13	10	13	19	13	19	27	18	28	74	29	58	101
Max power draw	A	0,19			0,27			0,26			0,67			1,15		
SOUND DATA																
Return + radiated sound power	dB(A)	31	34	42	33	36	42	35	41	45	39	44	53	44	51	56
Return + radiated sound pressure (*)	dB(A)	19	22	30	21	24	30	23	29	33	25	30	39	30	37	42
Delivery sound power	dB(A)	28	31	39	30	33	39	32	38	42	36	41	50	41	48	53
Delivery sound pressure (*)	dB(A)	16	19	27	18	21	27	20	26	30	22	27	36	27	34	39

(*) Values given as a guideline for units with non-ducted intake and with ducted discharge, and for room and installation attenuation of 12 dB (size 3 to 8) and 14 dB (size 12).

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