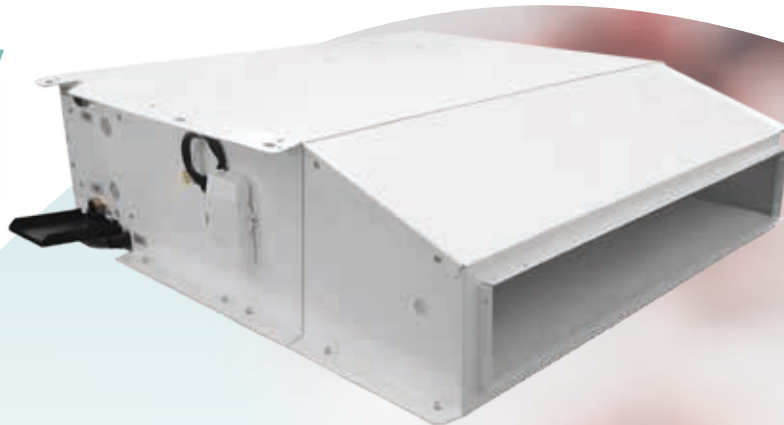




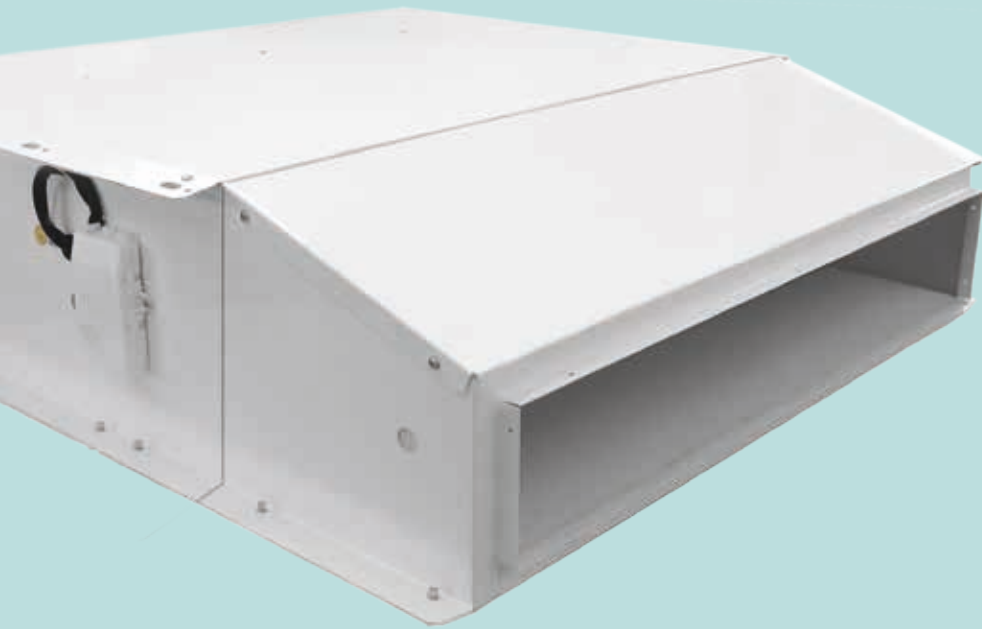
LNH

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



SOMETHING DIFFERENT

GB



LNH

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

LNH has been designed to ensure maximised energy comfort and lowest-noise operation - which are difficult to achieve with traditional air units (split units, fancoils).

The solution implemented allows the natural turbulence of the convective air flow to be reduced. By necessarily integrating a silencer into the unit, suitably insulated at the delivery end, extremely low sound levels are achieved, making it suitable for installation in hotel rooms ("LOW NOISE HOTELS").

Its performance makes it the ideal product for installations that require compliance with strict noise control regulations.

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 TEXTURED POLYURETHANE.

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

THE INSULATING MATERIAL OF THE SILENCER PLENUM AND OF THE STRUCTURE IS MADE OF ECO-FRIENDLY MATERIALS (RECYCLED POLYESTER FIBRE) WITH LOW ENVIRONMENTAL IMPACT.

ACCESSIBILITY

LNH IS DESIGNED FOR MAXIMUM CONVENIENCE DURING MAINTENANCE: THE FAN, AS WELL AS THE MAIN TANK AND THE COIL, CAN BE INSPECTED AND REMOVED WITH THE SAME PROCEDURE.



COOLING

0.8/8.6_{kw}



HEATING

0.7/9.5_{kw}



AIR FLOW

90-1579_{m³/h}



CONSUMPTION REDUCED UP TO

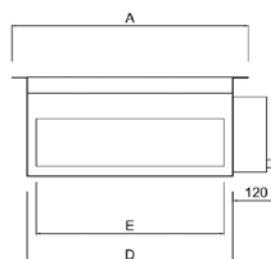
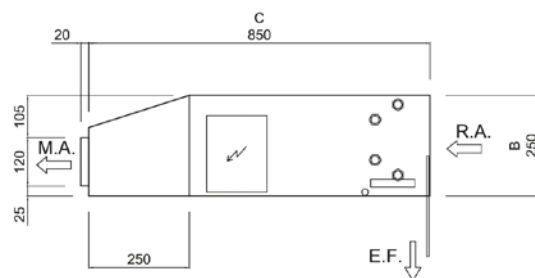
58%



DIMENSIONAL DWGS

SIZE	A	B	C	D	E	WEIGHT Kg
3	600	250	850	520	475	25
6	860	250	850	780	735	33
8	1120	250	850	1040	995	42
12	1120	250	850	1040	995	42

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



AC MOTOR 2-PIPE SYSTEM

		3			6			8			12		
		4 rows			4 rows			4 rows			4 rows		
SPEED		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
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
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
Water flow rate	l/h	249	372	415	366	537	604	577	848	962	858	1204	1302
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
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
Water flow rate	l/h	237	369	416	350	537	614	544	833	961	844	1240	1356
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
MOTOR ELECTRIC POWER DRAW													
Power draw	W	15	28	32	21	36	43	44	73	89	68	116	137
Max power draw	A	0.19			0.24			0.47			0.74		
SOUND DATA													
Return + radiated sound power	dB(A)	32	39	42	29	36	40	32	41	45	40	51	54
Delivery sound power	dB(A)	20	27	30	17	24	28	20	29	33	26	37	40
Return + radiated sound pressure (*)	dB(A)	29	36	39	26	33	37	29	38	42	37	48	51
Delivery sound pressure (*)	dB(A)	17	24	27	14	21	25	17	26	30	23	34	37

AC MOTOR 4-PIPE SYSTEM

		3 + B1			6 + B1			8 + B1			12 + B1		
		4 rows + 1			4 rows + 1			4 rows + 1			4 rows + 1		
SPEED		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
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
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
Water flow rate	l/h	249	372	415	366	537	604	577	848	962	858	1204	1302
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
HEATING - air 20°C - water inlet 65°C, outlet 55°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
Water flow rate	l/h	108	155	171	168	238	266	248	350	393	354	473	508
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
MOTOR ELECTRIC POWER DRAW													
Power draw	W	15	28	32	21	36	43	44	73	89	68	116	137
Max power draw	A	0.19			0.24			0.47			0.74		
SOUND DATA													
Return + radiated sound power	dB(A)	32	39	42	29	36	40	32	41	45	40	51	54
Delivery sound power	dB(A)	20	27	30	17	24	28	20	29	33	26	37	40
Return + radiated sound pressure (*)	dB(A)	29	36	39	26	33	37	29	38	42	37	48	51
Delivery sound pressure (*)	dB(A)	17	24	27	14	21	25	17	26	30	23	34	37

(*) 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 EC

EC MOTOR 2-PIPE SYSTEM

		3			6			8			12		
		4 rows			4 rows			4 rows			4 rows		
SPEED (DRIVE VOLTAGE)	V	3	4	7	4	5	7	5	7	9	4	5	8
Air flow	m3/h	190	236	368	424	499	652	525	681	824	646	811	1231
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
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
Water flow rate	l/h	249	297	421	475	540	663	669	822	952	789	943	1276
Δp (water)	kPa	8.7	12.1	23.05	6.4	8.1	11.9	14.3	21.0	27.5	19.4	27.1	47.5
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
Water flow rate	l/h	236	287	423	468	541	682	640	806	950	769	937	1328
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
MOTOR ELECTRIC POWER DRAW													
Power draw	W	7	8	13	10	13	19	13	19	27	18	28	74
Max power draw	A	0.19			0.27			0.26			0.67		
SOUND DATA													
Return + radiated sound power	dB(A)	31	34	42	33	36	42	35	41	45	39	44	53
Delivery sound power	dB(A)	19	22	30	21	24	30	23	29	33	25	30	39
Return + radiated sound pressure (*)	dB(A)	28	31	39	30	33	39	32	38	42	36	41	50
Delivery sound pressure (*)	dB(A)	16	19	27	18	21	27	20	26	30	22	27	36

EC MOTOR 4-PIPE SYSTEM

		3 + B1			6 + B1			8 + B1			12 + B1		
		4 rows + 1			4 rows + 1			4 rows + 1			4 rows + 1		
SPEED (DRIVE VOLTAGE)	V	3	4	7	4	5	7	5	7	9	4	5	8
Air flow	m3/h	190	236	368	424	499	652	525	681	824	646	811	1231
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
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
Water flow rate	l/h	249	297	421	475	540	663	669	822	952	789	943	1276
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
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
Water flow rate	l/h	108	126	173	213	239	290	283	341	390	328	386	500
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
MOTOR ELECTRIC POWER DRAW													
Power draw	W	7	8	13	10	13	19	13	19	27	18	28	74
Max power draw	A	0.19			0.27			0.26			0.67		
SOUND DATA													
Return + radiated sound power	dB(A)	31	34	42	33	36	42	35	41	45	39	44	53
Delivery sound power	dB(A)	19	22	30	21	24	30	23	29	33	25	30	39
Return + radiated sound pressure (*)	dB(A)	28	31	39	30	33	39	32	38	42	36	41	50
Delivery sound pressure (*)	dB(A)	16	19	27	18	21	27	20	26	30	22	27	36

(*) = the sound pressure levels are lower than power levels by 9 dB(A) for a 100 m3 space and a reverberation time of 0.5 sec. The human hearing is more perceivable to frequencies above 2000 Hz while the sound data here declared include all the band middle frequencies. For more details, refer to the technical manual.

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