



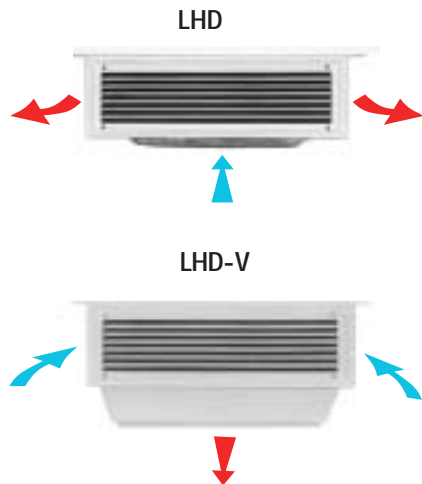
*Technik, die dem Menschen dient.*

## Unit heaters LHD/LHD-V



# Unit heaters LHD/LHD-V

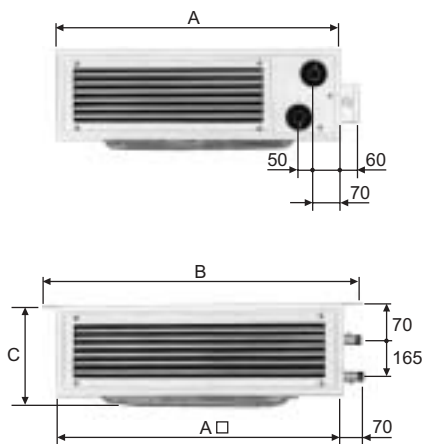
## Description



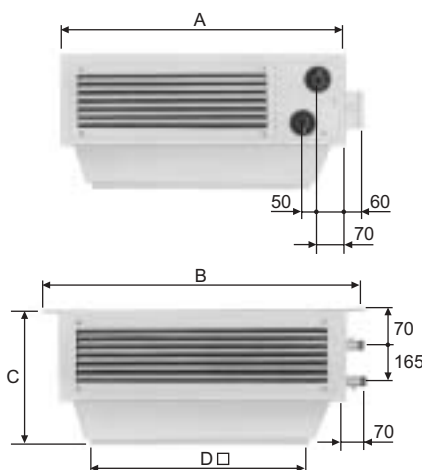
- Unit heaters for direct suspension from the ceiling.
- Suitable for use in sales premises, workshops, storerooms, garages, etc.
- Welded, galvanised sectional frame, paint finish.
- Adjustable discharge louvres for directing the warm air stream
- Quiet axial fan.
- 2 ratings: air volumes up to 4 800 m<sup>3</sup>/h and heating output up to 42 kW
- LHD with horizontal discharge - ideal for low-ceilinged rooms
- LHD-V with vertical discharge - ideal for entryways
- Air intake form the room

## Technical data

LHD with horizontal discharge



LHD-V with vertical discharge



Type		LHD 40	LHD-V 40	LHD 63	LHD-V 63
Dimensions	A mm	630	630	800	800
	B mm	730	730	900	900
	C mm	280	370	280	370
	D mm	-	460	-	590
Water capacity	Ltr.	1,5	1,5	2,0	2,0
Weight	kg	35	38	50	53
Thread (outside)	R	1"	1"	1"	1"
<b>Three-phase motor</b>					
Rated output	kW	0,2		0,2	
Rated voltage	V	3 x 400		3 x 400	
Rated current	A	0,85		0,85	
Frequency	Hz	50		50	
Speed	rpm	900		900	
Degree of protection	IP	54		54	
ISO class		F		F	
<b>Single-phase motor</b>					
Rated output	kW	0,18		0,18	
Rated voltage	V	230		230	
Rated current	A	2,2		2,2	
Frequency	Hz	50		50	
Speed	rpm	900		900	
Degree of protection	IP	44		44	
ISO class		F		F	

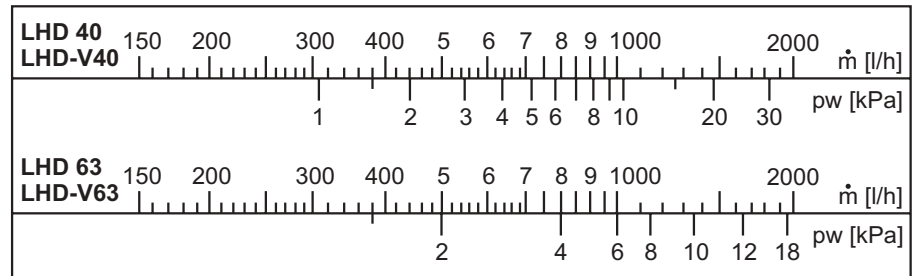
Switch controllers	D1	DS	D5-1	D5-3	D5-7	D5-12	A2	E5-3	E5-7T
Operating voltage V	3x400	3x400	3x400	3x400	3x400	3x400	3x400	230	230
Control voltage V	230	230	230	230	230	230	230	230	230
Output max. kW	3	4	-	-	-	-	4	-	-
Current max. A	-	-	1,0	2,0	4,0	7,0	-	3,0	7,0
Deg. of protection IP	54	54	40	20	20	20	55	40	40
Length mm	170	170	200	310	310	310	220	200	200
Width mm	105	105	150	230	230	230	170	150	150
Height mm	135	135	175	185	185	185	110	175	175
Weight kg	0,9	0,9	4,5	7,0	9,0	19,0	2,0	4,0	5,0

### Performance table

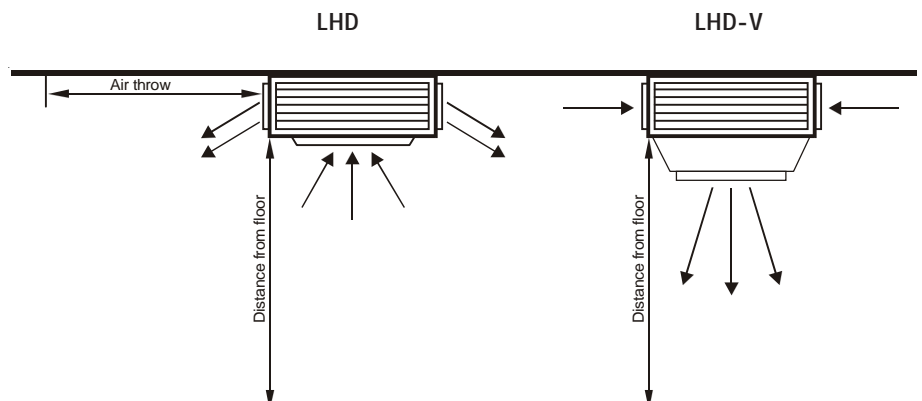
Type		LHD 40 / LHD-V 40				LHD 63 / LHD-V 63			
Speed		900 rpm		700 rpm		900 rpm		700 rpm	
Air volume		2200 m <sup>3</sup> /h		1700 m <sup>3</sup> /h		4800 m <sup>3</sup> /h		3700 m <sup>3</sup> /h	
Heating medium	t <sub>on</sub> °C	Q kW	t <sub>off</sub> °C	Q kW	t <sub>off</sub> °C	Q kW	t <sub>off</sub> °C	Q kW	t <sub>off</sub> °C
LPHW 60/50	+ 5	16,5	27	14,0	29	28,3	22	24,3	24
	+10	14,5	30	12,4	31	25,1	25	21,5	27
	+15	12,7	32	10,8	34	22,0	29	18,9	30
	+20	10,8	35	9,3	36	18,9	32	16,2	33
LPHW 70/50	+ 5	16,8	27	14,4	29	29,5	23	25,4	25
	+10	15,0	30	12,8	32	26,3	26	22,6	28
	+15	13,2	33	11,2	35	23,2	29	20,0	31
	+20	11,3	36	9,7	37	20,0	33	17,3	34
LPHW 80/60	+ 5	20,6	32	17,6	35	35,8	26	30,8	29
	+10	18,8	35	16,0	37	32,6	30	28,0	32
	+15	16,9	38	14,4	40	29,4	33	25,3	35
	+20	15,0	41	12,8	42	26,3	36	22,6	38
LPHW 90/70	+ 5	24,4	37	20,7	40	42,1	30	36,1	33
	+10	22,5	40	19,2	43	38,8	34	33,3	36
	+15	20,5	43	17,5	46	35,6	37	30,6	40
	+20	18,7	46	16,0	48	32,5	40	27,9	43

Operational limits: max. flow temperature 95 °C  
max. ambient temperature 40 °C

### Hydraulic resistance



### Notes on planning



Type		LHD 40	LHD-V 40	LHD 63	LHD-V 63
Speed	rpm	900	900	900	900
Max. air throw	m	3,6	-	4,0	-
Max. distance from floor	m	2,5	-	3,0	-
Recomm. distance from floor	m	-	4,5	-	5,0
Sound pressure level*	dBA	52	53	57	59

\* Enclosed space 1500 m<sup>3</sup>; average absorption; distance 5 m from intake.



Technik, die dem Menschen dient.

# Specification Unit heaters LHD/LHD-V

Item	Pcs.		Single price	Total price
		<p><b>Unit heater</b> for return air function; ceiling-mounted; galvanised sectional-steel frame, paint finish. Casing panels galvanised, stove-enamelled white RAL 1013.</p> <p><b>Basic unit with</b></p> <p><b>Axial fan</b> for quiet operation, with statically and dynamically balanced impeller and protection grille.</p> <p><b>Motor</b> for direct drive, maintenance-free ball bearings, lifelong lubrication, insulation class F, thermo contacts in the winding for full motor protection.</p> <p><b>Heat exchanger</b> Co/AL for LPHW; connections with external threads; rosettes covering casing penetrations. Heat exchanger with vent and drain plugs.</p> <p><b>Discharge louvres</b> with manually adjustable flow-control vanes.</p> <p><b>Accessories:</b>            Single-stage switch            Two-stage switch            Five-stage switch            A2 control unit            (without two-stage room thermostat)</p> <p><b>Thermostats:</b>            Room thermostat            Room thermostat, two-stage            Room thermostat with summer/winter switch            Room thermostat - industrial version            Room thermostat timer            with daily/weekly programming            Room thermostat timer, two-stage            with daily/weekly programming</p> <p><b>Technical Data</b></p> <p>Air volume ..... m<sup>3</sup>/h            Heating output ..... kW            Air temperature rise from ..... to ..... °C            Heating medium ..... / ..... °C            Hydraulic resistance ..... kPa            Motor speed ..... rpm            Motor output ..... kW            Operating voltage ..... V            Rated current ..... A  <b>Degree of protection</b> .....</p> <p><b>Dimensions:</b> Length: ..... mm            Width: ..... mm            Height: ..... mm            Weight: ..... kg</p> <p>Make: Wolf            Type: LHD .....                  LHD-V .....</p>		