









Conforme à VDI 6022



QLI

INDUCTION-TYPE DISPLACEMENT FLOW DIFFUSER IN NOMINAL LENGTHS OF 900, 1200 AND 1500 MM, WITH VERTICAL HEAT EXCHANGER AND CONDENSATE DRIP TRAY

Induction-type displacement flow diffuser with 2-pipe or 4-pipe heat exchanger, for installation under a sill. The condensate drip tray is useful if the temperature temporarily falls below the dew point.

- High heating and cooling capacity with a low conditioned primary air volume flow rate and low sound power level
 High comfort levels due to low airflow velocity in the occupied zone
- Three nozzle variants to optimise induction based on demand .
- Two different heat exchanger positions

Optional equipment and accessories

Control package

- Fixing systems for wall and floor fixing
- Powder coating in many different colours, e.g. RAL CLASSIC or NCS

Application

Application

- Induction-type displacement flow diffusers of Type QLI for installation under a sill
- High comfort levels due to low-turbulence airflow and low airflow velocity in the occupied zone
- 2-pipe or 4-pipe heat exchangers enable good comfort levels with a low conditioned primary air volume flow rate
- Energy-efficient solution since water is used as a medium for heating and cooling
- Inducing displacement flow
- Choice of location for primary air spigot at a narrow side; end cap may have to be changed accordingly

Special characteristics

- Low-turbulence supply air discharge as inducing displacement flow
- Vertical heat exchanger as 2-pipe or 4-pipe system, optional condensate drip tray including condensate drain that can be connected to a condensate pipe (to be provided by others)
- Water connections at the narrow side, G¹/₂" external thread and flat seal

Description

Variants

- WVL: Heat exchanger at the front, water connections on the left
- WVR: Heat exchanger at the front, water connections on the right
- WHL: Heat exchanger at the rear, water connections on the left
 WHR: Heat exchanger at the rear, water connections on the right
- WHR: Heat exchanger at the rear, water connections on the right

Construction

- Galvanised
- P1: Powder-coated RAL 9005, black, gloss level 70 %

Accessories

- W0: Wall fixing
- B0: Floor fixing
- WB: Wall and floor fixing
- Condensate drip tray

Useful additions

- Connecting hoses
- Control equipment consisting of a control panel including a controller with integral room temperature sensor; valves and valve actuators; and compression couplers

Construction features

- Spigot is suitable for circular ducts to EN 1506 or EN 13180
- Three nozzle variants to optimise induction based on demand
- Vent valves

Materials and surfaces

- Casing, supply air grille, and primary air plenum with punched nozzles are made of galvanised sheet steel
- Heat exchanger with copper tubes and aluminium fins
- Exposed surfaces either galvanised or black (RAL 9005)

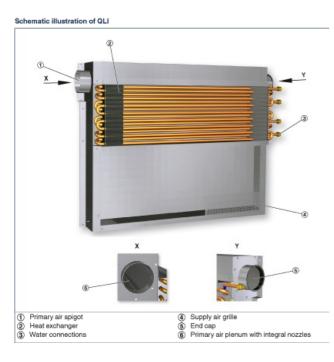
INFORMACIÓN TÉCNICA

Functional description

Induction-type displacement flow diffusers provide centrally conditioned primary air (fresh air) to the room and use heat exchangers for cooling and/or heating.

The primary air is discharged through nozzles and induces secondary air (room air), which passes through the heat exchanger.

Primary and secondary air mix and are then supplied to the room, causing only very little turbulence.



Nominal length	900, 1200, 1500 mm
Length	975, 1275, 1575 mm
Width	195 mm
Height	729 mm
Primary air volume flow rate	4 - 50 l/s, 14 - 180 m ³ /h
Cooling capacity	Up to 1000 W
Heating capacity	Up to 750 W
Max. operating pressure, water side	6 bar
Max. operating temperature, water side	75 °C

L _N (1)	Primary air			2		Cooli	ing	Heating			
					2-pi	pe and 4-p	ipe system	4-pipe system			
	v		Pa	dB (A)	Q _{sot}	Qwk	Δt _w	Δp _w	$\hat{Q}_{WH} = \hat{Q}_{tot}$	Δt _w	∆p _w
	l/s	m³/h			Ŵ		ĸ	kPa	W	К	kPa
	4	14		<20	237	188	1.5	3.1	228	3.9	0.
м	6				332	260		3.1	314	5.4	0.3
	8		217		415	318	2.5	3.1	386	6.6	0.1
	7		40	<20	317	233	1.8	3.1	281	4.8	0.
G	11	40	102	22	456	323	2.5	3.1	392	6.7	0.3
	15	54	191	31	571	391	3.1	3.1	474		0.1
	17	43	42	<20	387	242	1.9	3.1	293	5.0	0.3
U	19	68	108	28	550	321	2.5	3.1	389	6.7	0.
	26	94	204	37	677	364	2.8	3.1	441	7.6	0.1
м 00 G U	5	18	45	<20	293	233	1.8	3.8	281	4.8	0.3
	8	29	117	23	431	335	2.6	3.8	406	7.0	0.3
	11	40	222	32	548	416	3.3	3.8	505	8.7	0.3
	9	32	37	<20	401	293	2.3	3.8	355	6.1	0.3
	15	54	106	23	601	420	3.3	3.8	510	8.8	0.3
	21	46	208	33	761	508	4.0	3.8	618	10.6	0.3
	16	58	45	<20	506	313	2.4	3.8	379	6.5	0.3
	25	90	112	31	709	408	3.2	3.8	495	8.5	0.3
	34	122	207	40	871	461	3.6	3.8	560	9.6	0.3
	6	22	41	<20	347	275	2.2	4.5	333	5.7	0.4
м	10	36	115	23	526	405	3.2	4.5	492	8.5	0.4
	14	50	228	33	674	505	3.9	4.5	614	10.6	0.4
	11	40	36	<20	483	350	2.7	4.5	424	7.3	0.4
G	19	68	111	25	737	508	4.0	4.5	618	10.6	0.4
	27	97	225	35	939	613	4.8	4.5	747	12.9	0.4
	20	72	49	23	621	380	3.0	4.5	461	7.9	0.4
U	28	101	98	33	802	464	3.6	4.5	564	9.7	0.4
	36	130	163	41	956	521	4.1	4.5	634	10.9	0.
	M G U M G U M G G	Unit M 4 M 6 7 11 15 17 U 19 0 15 0 15 0 15 10 16 11 15 0 15 10 16 11 16 11 17 12 16 11 12 11 12 11 12 12 16 14 11 19 12 12 11 13 11 14 11 19 12 12 12 13 11 14 11 15 12 16 11 17 19 17 19 17 19 17 10 <tr< td=""><td>Us m³/h 4 14 6 22 7 25 11 40 15 20 0 17 43 20 19 32 19 38 20 94 15 54 15 54 15 54 121 46 25 90 16 58 175 54 121 46 25 90 14 50 34 122 16 22 17 43 121 46 225 90 34 122 10 38 14 50 27 97 9 38 19 68 27 97 19 28 101</td><td>W m²/h Pa 4 14 53 6 22 121 7 25 40 11 40 102 15 54 191 0 17 43 42 19 68 102 177 6 5 18 42 M 6 29 177 11 40 229 377 15 54 102 112 20 21 46 206 11 40 22 377 6 22 377 112 25 50 112 24 41 102 25 307 16 62 24 41 103 38 112 20 114 60 228 41 20 114 60 28 101 36 115<td>isolation isolation isolation W 4 14 53 420 4 14 53 420 420 6 22 121 24 42 420 121 24 6 29 217 32 32 32 32 32 32 32 32 32 32 32 32 32 32 33 33 33 33 33 33 33 33 33 33 33 33 33 33 33 33 33 34 32 33 33 33 34 33 33 33 33 34 33 33 34 33 33 34 33 33 33 34 34 420 420 420 420 420 420 420 430 420 420 420 420 420 420 420 420 420 420 420<!--</td--><td>Vis m²h Pa dB (Å) W Qar 4 14 53 6-20 237 2332 6 20 217 24 332 332 6 20 217 32 415 7 25 40 6-20 317 6 11 40 102 22 456 15 54 191 31 571 571 6 571 0 20 94 204 377 677 777 43 42 420 387 0 5 18 445 4-20 387 677 77 M 6 22 37 7-420 401 111 40 228 37 640 37 671 0 15 54 106 23 671 651 64 420 401 10 10 10 10 10 10</td><td>U n' Pa Class Class U 4 14 53 <</td> 200 237 188 0 22 121 24 332 280 318 0 11 40 102 221 24 332 280 11 40 102 22 415 316 317 233 11 40 102 22 456 333 571 391 17 43 42 <</td> 307 723 341 17 43 42 37 723 341 19 68 106 28 550 331 355 331 335 11 40 222 22 458 431 293 233 376 506 331 35 31 709 408 431 432 290 333 31 203 372</td><td>Vis Vis Out Out Out Out Out Vis 1 1 53 - 203 158 1.5 M 6 22 121 24 332 250 2.0 0 22 121 24 332 250 2.0 0 29 217 32 415 316 2.5 11 40 102 22 456 323 2.5 15 54 102 22 456 323 2.5 17 43 42 - 30 37 2.3 1.8 17 43 42 - 2.0 387 2.42 1.9 18 6 - 2.0 2.9 2.43 1.8 3.3 2.6 11 40 2.22 2.2 5.6 5.0 3.1 3.3 2.6 1.8 3.3 2.6 1.8 3.3<td>i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i< i i i i i i i i i i i i i i i i i</td><td>U Vr/v AP, Pa OB/L (B) OB/L (C) OB/L (C</td><td>U Vr, DP DP OB <thob< th=""> OB OB OB<</thob<></td></td></tr<>	Us m³/h 4 14 6 22 7 25 11 40 15 20 0 17 43 20 19 32 19 38 20 94 15 54 15 54 15 54 121 46 25 90 16 58 175 54 121 46 25 90 14 50 34 122 16 22 17 43 121 46 225 90 34 122 10 38 14 50 27 97 9 38 19 68 27 97 19 28 101	W m ² /h Pa 4 14 53 6 22 121 7 25 40 11 40 102 15 54 191 0 17 43 42 19 68 102 177 6 5 18 42 M 6 29 177 11 40 229 377 15 54 102 112 20 21 46 206 11 40 22 377 6 22 377 112 25 50 112 24 41 102 25 307 16 62 24 41 103 38 112 20 114 60 228 41 20 114 60 28 101 36 115 <td>isolation isolation isolation W 4 14 53 420 4 14 53 420 420 6 22 121 24 42 420 121 24 6 29 217 32 32 32 32 32 32 32 32 32 32 32 32 32 32 33 33 33 33 33 33 33 33 33 33 33 33 33 33 33 33 33 34 32 33 33 33 34 33 33 33 33 34 33 33 34 33 33 34 33 33 33 34 34 420 420 420 420 420 420 420 430 420 420 420 420 420 420 420 420 420 420 420<!--</td--><td>Vis m²h Pa dB (Å) W Qar 4 14 53 6-20 237 2332 6 20 217 24 332 332 6 20 217 32 415 7 25 40 6-20 317 6 11 40 102 22 456 15 54 191 31 571 571 6 571 0 20 94 204 377 677 777 43 42 420 387 0 5 18 445 4-20 387 677 77 M 6 22 37 7-420 401 111 40 228 37 640 37 671 0 15 54 106 23 671 651 64 420 401 10 10 10 10 10 10</td><td>U n' Pa Class Class U 4 14 53 <</td> 200 237 188 0 22 121 24 332 280 318 0 11 40 102 221 24 332 280 11 40 102 22 415 316 317 233 11 40 102 22 456 333 571 391 17 43 42 <</td> 307 723 341 17 43 42 37 723 341 19 68 106 28 550 331 355 331 335 11 40 222 22 458 431 293 233 376 506 331 35 31 709 408 431 432 290 333 31 203 372	isolation isolation isolation W 4 14 53 420 4 14 53 420 420 6 22 121 24 42 420 121 24 6 29 217 32 32 32 32 32 32 32 32 32 32 32 32 32 32 33 33 33 33 33 33 33 33 33 33 33 33 33 33 33 33 33 34 32 33 33 33 34 33 33 33 33 34 33 33 34 33 33 34 33 33 33 34 34 420 420 420 420 420 420 420 430 420 420 420 420 420 420 420 420 420 420 420 </td <td>Vis m²h Pa dB (Å) W Qar 4 14 53 6-20 237 2332 6 20 217 24 332 332 6 20 217 32 415 7 25 40 6-20 317 6 11 40 102 22 456 15 54 191 31 571 571 6 571 0 20 94 204 377 677 777 43 42 420 387 0 5 18 445 4-20 387 677 77 M 6 22 37 7-420 401 111 40 228 37 640 37 671 0 15 54 106 23 671 651 64 420 401 10 10 10 10 10 10</td> <td>U n' Pa Class Class U 4 14 53 <</td> 200 237 188 0 22 121 24 332 280 318 0 11 40 102 221 24 332 280 11 40 102 22 415 316 317 233 11 40 102 22 456 333 571 391 17 43 42 <	Vis m²h Pa dB (Å) W Qar 4 14 53 6-20 237 2332 6 20 217 24 332 332 6 20 217 32 415 7 25 40 6-20 317 6 11 40 102 22 456 15 54 191 31 571 571 6 571 0 20 94 204 377 677 777 43 42 420 387 0 5 18 445 4-20 387 677 77 M 6 22 37 7-420 401 111 40 228 37 640 37 671 0 15 54 106 23 671 651 64 420 401 10 10 10 10 10 10	U n' Pa Class Class U 4 14 53 <	Vis Vis Out Out Out Out Out Vis 1 1 53 - 203 158 1.5 M 6 22 121 24 332 250 2.0 0 22 121 24 332 250 2.0 0 29 217 32 415 316 2.5 11 40 102 22 456 323 2.5 15 54 102 22 456 323 2.5 17 43 42 - 30 37 2.3 1.8 17 43 42 - 2.0 387 2.42 1.9 18 6 - 2.0 2.9 2.43 1.8 3.3 2.6 11 40 2.22 2.2 5.6 5.0 3.1 3.3 2.6 1.8 3.3 2.6 1.8 3.3 <td>i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i< i i i i i i i i i i i i i i i i i</td> <td>U Vr/v AP, Pa OB/L (B) OB/L (C) OB/L (C</td> <td>U Vr, DP DP OB <thob< th=""> OB OB OB<</thob<></td>	i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i< i i i i i i i i i i i i i i i i i	U Vr/v AP, Pa OB/L (B) OB/L (C) OB/L (C	U Vr, DP DP OB OB <thob< th=""> OB OB OB<</thob<>

Induction-type displacement flow diffuser of Type QLI, with one-way discharge and high thermal output, providing high thermal comfort levels.

For installation on a wall or under the sill

The units consist of a casing with a primary air plenum, spigot, non-combustible nozzles, and vertical heat exchanger; a condensate drip tray is optional.

Special characteristics

- Low-turbulence supply air discharge as inducing displacement flow
- Vertical heat exchanger as 2-pipe or 4-pipe system, optional condensate drip tray including condensate drain that can be connected to a . condensate pipe (to be provided by others)
- Water connections at the narrow side, G¹/₂" external thread and flat seal

Materials and surfaces

- Casing, supply air grille, and primary air plenum with punched nozzles are made of galvanised sheet steel
 Heat exchanger with copper tubes and aluminium fins
- Exposed surfaces either galvanised or black (RAL 9005)

Construction

- Galvanised
- P1: Powder-coated RAL 9005, black, gloss level 70 %

Technical data

- Nominal length: 900, 1200, 1500 mm
 Length: 975, 1275, 1575 mm
- Width: 195 mm • .
- Height: 729 mm Primary air volume flow rate: 4 - 50 l/s or 14 - 180 m³/h .
- Cooling capacity: up to 1000 W
- . Heating capacity: up to 750 W
- Max. operating pressure: 6 bar
- Max. operating temperature: 75 °C

QLI

QLI	- 2	– M -	- WVR -	- KW	/ 900	/ wo	/ P1	/ vs
d d	2	3	4	5	6	7	8	9

1 Type QLI Under sill induction unit 2 Heat exchanger
2 2-pipe
4 4-pipe

3 Nozzle variants
 M Medium
 G Large
 U Extra large

- Arrangement of heat exchanger and water connections
 WVL Heat exchanger at the front, water connec-tions on the left
 WVR Heat exchanger at the front, water connec-tions on the right
 WHR Heat exchanger at the rear, water connec-tions on the right
 WHR Heat exchanger at the rear, water connec-tions on the right
 WHR Heat exchanger at the rear, water connec-tions on the right
 Surface
 No entry: galvanisee
 No entry: galvanisee
 No entry: none
 Vs With
 With

5 Condensate drip tray No entry: none KW With

No entry: galvanised steel Powder-coated RAL 9005, black, gloss level 70 %

8 Surface

6 Nominal length [mm] 900 1200 1500

 Wo
 Wall fixing

 B0
 Floor fixing

 WB
 Wall and floor fixing