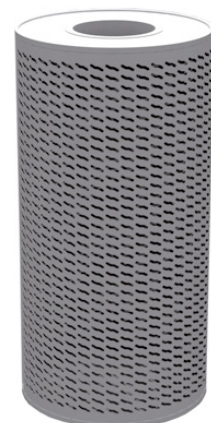


S-90



Catalogue Series 90



S-90-C



Displacement units

Product description

The **S-90** diffusers are displacement units for floor installation. The unit includes upper and lower covers and a perforated air distribution face plate. Connections can be made through the upper or lower cover.

The units are of galvanised steel sheet construction with aluminium sections and include an air equalising plate (painted in black) inside, as well as static pressure measurement to obtain the supply flow rate. The standard finish is RAL 9010 white paint, although any RAL colour is available upon request. The **S-90** displacement diffusers can be used in both comfort and industrial environments. Air is supplied from the occupied area level at a slow outlet velocity (< 0.8 m/s) to minimise turbulence. Depending on the size, the units can also supply large air volumes. Air is supplied at a temperature difference of -1 to -6°C with respect to the ambient temperature.

See **S-90** catalog for technical data.

The S-90-44 version has a larger free air outlet area than the standard S-90 diffuser to provide an outlet velocity reduction of 35%.

Other models

S-90-C. Round. Dimensions between $\varnothing$ 125 to 630 mm.

S-90-SC. Semicircular. Dimensions between $\varnothing$ 160 to 630 mm.

S-90-CC. Quadrant. Dimensions between $\varnothing$ 160 to 630 mm.

S-90-R. Rectangular. Standard dimensions LxH; L: 600-1200 mm and H: 800-2000 mm.

S-90-R-3. 3-Way Rectangular. Standard dimensions LxH; L: 600-1200 mm and H: 800-2000 mm.

S-90-RT. Horizontal Rectangular. Standard dimensions LxH; L: 800-2000 mm and H: 200-800 mm.

S-90-R-E. Flush-mounted Rectangular. Standard dimensions LxH; L: 400-900 mm and H: 400-600 mm.

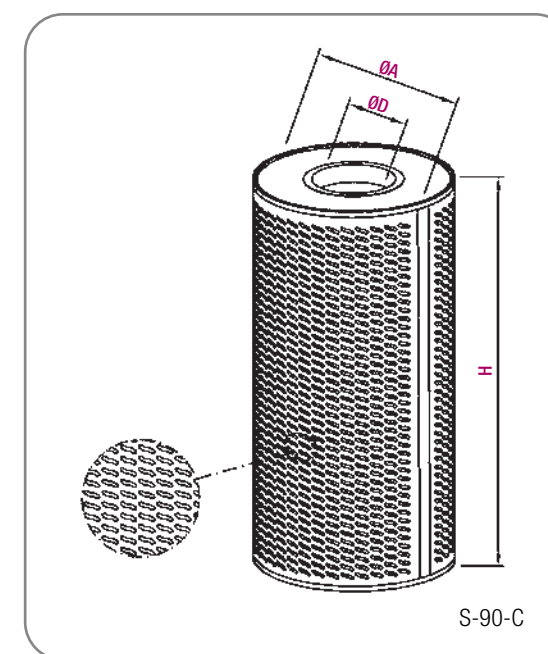
Accessories

-Z. Plinth.

-ET. Telescopic duct cover

-PT. Telescopic plenum

General dimensions



Size	A	H	Ø D
125	300	600	125
160	335	900	160
200	375	900	200
250	430	1200	250
315	495	1500	315
400	580	1800	400
500	680	2000	500
630	810	2000	630

Unit mm

Accessories

-Z. Plinth.

-ET. Telescopic duct cover.

Selection table

Model	Q (m³/h)	L _{wa} [dB(A)]	ΔP _t (Pa)	X (m)
125	225	25	15	2.7
	270	30	21	3.5
	310	35	30	4.0
160	320	25	13	2.5
	380	30	17	3.0
	460	35	25	3.6
200	460	25	10	3.0
	550	30	14	4.0
	650	35	20	4.7
250	650	25	9	3.7
	770	30	12	4.6
	930	35	17	5.5
315	1,000	25	7	2.8
	1,100	30	10	3.1
	1,350	35	14	4.8
400	1,400	25	6	3.3
	1,650	30	8	3.8
	1,950	35	12	4.5
500	1,950	25	5	4.1
	2,300	30	7	5.9
	2,800	35	10	6.0
630	2,800	25	4	5.5
	3,400	30	6	6.9
	4,000	35	8	8.0

LEGEND

Q (m³/h): Air flow.

L_{wa} [dB(A)]: Power noise level.

ΔP_t (Pa): Pressure loss.

X (m): Horizontal throw of the air jet, when the velocity in the occupied area is 0.20 m/s for a temperature difference of ΔT = -3 °C.

S-90

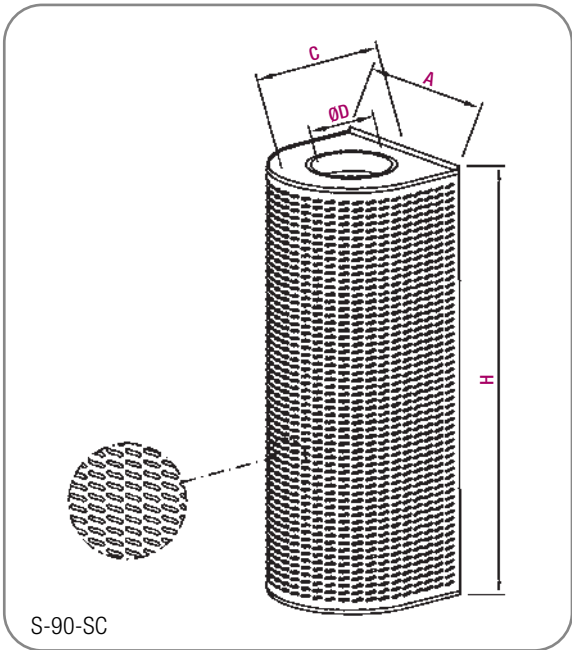


S-90-SC

Size	A	C	H	D
160	335	325	900	160
200	375	365	900	200
250	430	420	1200	250
315	495	480	1500	315
400	580	565	1800	400
500	680	665	2000	500
630	810	795	2000	630

Unit mm

General dimensions



S-90-SC

Accessories

- Z. Plinth.
- ET. Telescopic duct cover.

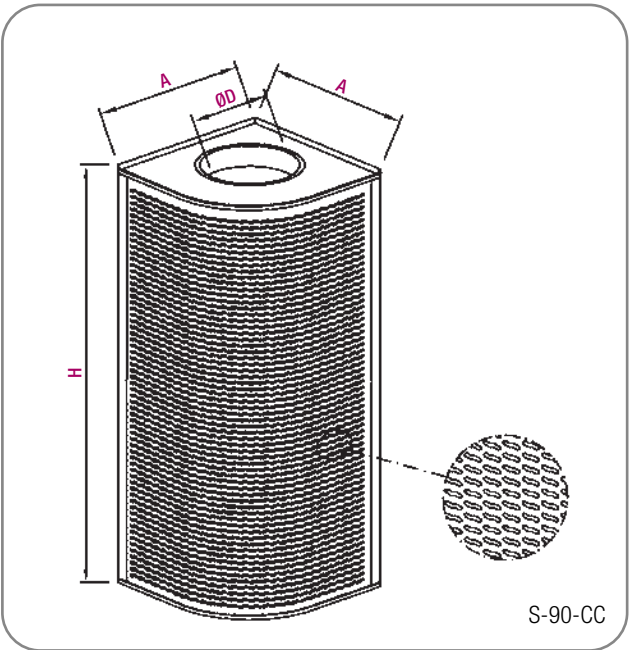
Selection table

Model	Q (m³/h)	L _{WA} [dB(A)]	ΔP _t (Pa)	X (m)
160	320	25	12	5.4
	380	30	17	6.3
	450	35	23	7.5
200	460	25	10	7.1
	550	30	14	8.0
	650	35	20	9.5
250	660	25	9	6.4
	800	30	13	7.1
	950	35	18	7.0
315	980	25	8	3.7
	1,150	30	10	4.1
	1,350	35	14	4.7
400	1,450	25	6	4.4
	1,700	30	9	5.5
	2,000	35	12	5.9
500	2,100	25	5	6.1
	2,450	30	8	7.2
	2,900	35	11	8.0
630	3,100	25	5	7.5
	3,600	30	7	8.0
	4,350	35	10	9.5

LEGEND

Q (m³/h): Air flow.
L_{WA} [dB(A)]: Power noise level.
ΔP_t (Pa): Pressure loss.
X (m): Horizontal throw of the air jet, when the velocity in the occupied area is 0.20 m/s for a temperature difference of ΔT = -3 °C.

General dimensions



S-90-CC

Accessories

- Z. Plinth.
- ET. Telescopic duct cover.



S-90-CC

Size	A	H	Ø D
125	250	900	125
160	335	900	160
200	375	900	200
250	430	1200	250
315	495	1500	315
400	580	1800	400
500	680	2000	500
630	810	2000	630

Unit mm

Selection table

Model	Q (m³/h)	L _{WA} [dB(A)]	ΔP _t (Pa)	X (m)
160	320	25	12	5.4
	390	30	18	6.3
	460	35	25	7.5
200	450	25	10	7.1
	540	30	14	8.0
	630	35	20	9.5
250	620	25	8	6.4
	740	30	11	7.1
	880	35	13	7.0
315	860	25	6	3.7
	1,040	30	9	4.1
	1,230	35	13	4.7
400	1,250	25	5	4.4
	1,450	30	7	5.5
	1,770	35	10	5.9
500	1,700	25	4	6.1
	2,000	30	6	7.2
	2,400	35	8	8.0
630	2,400	25	4	7.5
	2,850	30	5	8.0
	3,400	35	7	9.5

LEGEND

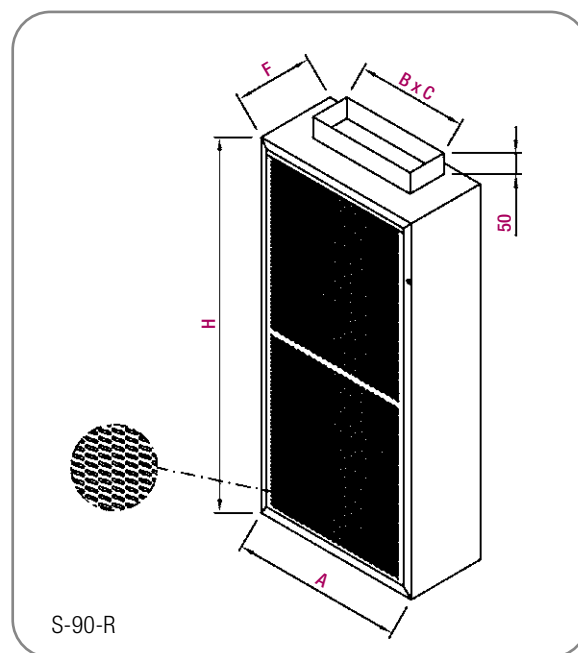
Q (m³/h): Air flow.
L_{WA} [dB(A)]: Power noise level.
ΔP_t (Pa): Pressure loss.
X (m): Horizontal throw of the air jet, when the velocity in the occupied area is 0.20 m/s for a temperature difference of ΔT = -3 °C.

S-90



S-90-R

General dimensions



S-90-R

Accessories

-Z. Plinth.

-ET. Telescopic duct cover.

Size	A	H	B	C	F
600 x 800 - 25	600	800	250	150	250
600 x 1200 - 30	600	1200	270	200	300
600 x 1500 - 30	600	1500	400	200	300
1000 x 1500 - 30	1000	1500	650	200	300
1200 x 2000 - 30	1200	2000	900	200	300

Unit mm

Selection table

Model	Q (m³/h)	L _{WA} [dB(A)]	ΔP _t (Pa)	X (m)
600 x 800-25	570	25	12	5.5
	680	30	17	6.7
	820	35	24	7.8
600 x 1200-30	750	25	10	4.5
	920	30	14	5.3
	1,100	35	21	6.4
600 x 1500-30	1,050	25	9	4.7
	1,270	30	13	6.3
	1,500	35	18	8.0
1000 x 1500-30	1,500	25	7	5.0
	1,800	30	10	5.5
	2,170	35	15	7.0
1200 x 2000-30	1,950	25	6	7.3
	2,330	30	8	8.5
	2,800	35	12	10.1

LEGEND

Q (m³/h): Air flow.

L_{WA} [dB(A)]: Power noise level.

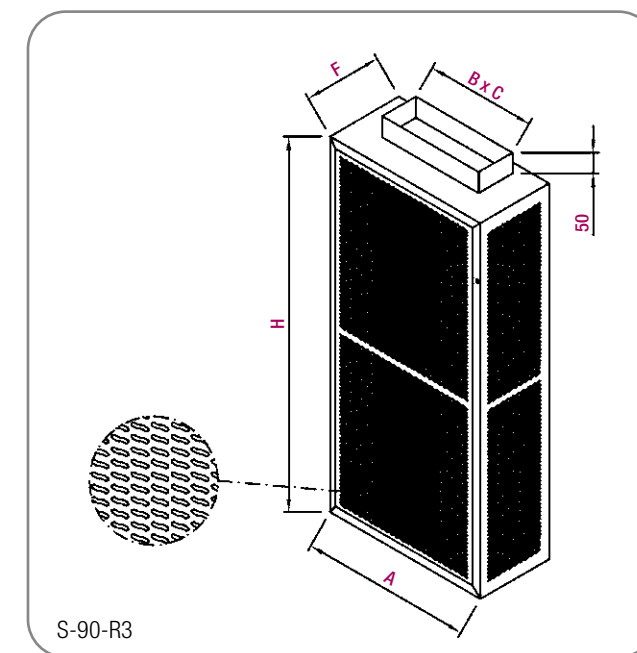
ΔP_t (Pa): Pressure loss.

X (m): Horizontal throw of the air jet, when the velocity in the occupied area is 0.20 m/s for a temperature difference of ΔT = -3 °C.

General dimensions



S-90-R3



S-90-R3

Accessories

-Z. Plinth.

-ET. Telescopic duct cover.

Size	A	H	F	B	C
600 x 800 x 25	600	800	250	250	150
600 x 1200 x 30	600	1200	300	270	200
600 x 1500 x 30	600	1500	300	400	200
1000 x 1500 x 30	1000	1500	300	650	200
1200 x 2000 x 30	1200	2000	300	900	200
1200 x 2000 x 35	1200	2000	350	900	250

Unit mm

Selection table

Model	Q (m³/h)	L _{WA} [dB(A)]	ΔP _t (Pa)	X (m)
600 x 800-25	560	25	11	3.1
	650	30	14	3.3
	780	35	21	4.0
600 x 1200-30	750	25	9	2.7
	870	30	12	3.3
	1,020	35	17	3.8
600 x 1500-30	1,000	25	7	2.2
	1,200	30	11	2.7
	1,400	35	15	3.3
1000 x 1500-30	1,450	25	6	2.3
	1,750	30	9	2.7
	2,050	35	15	3.3
1200 x 2000-30	1,900	25	5	1.8
	2,250	30	7	2.2
	2,650	35	10	2.6
1200 x 2000-35	2,250	25	5	2.3
	2,650	30	8	2.6
	3,200	35	10	3.5

LEGEND

Q (m³/h): Air flow.

L_{WA} [dB(A)]: Power noise level.

ΔP_t (Pa): Pressure loss.

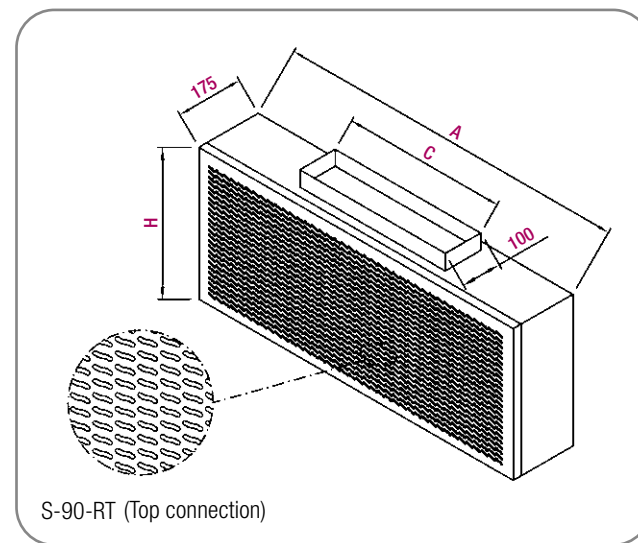
X (m): Horizontal throw of the air jet, when the velocity in the occupied area is 0.20 m/s for a temperature difference of ΔT = -3 °C.

S-90

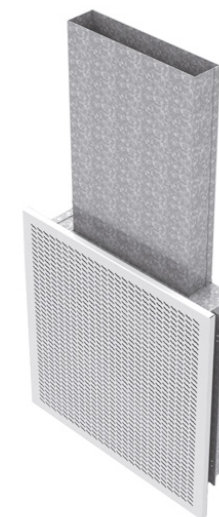


S-90-RT

General dimensions



S-90-RT (Top connection)



S-90-RE

Product description

The diffusers of the S-90-RT series have an upper and lower connection depending on the proposed installation.

Accessories

-Z. Plinth.

Size	A	H	C
1250 x 200	1250	200	350
1250 x 350	1250	350	400
1450 x 500	1450	500	500
1450 x 650	1450	650	700

Unit mm

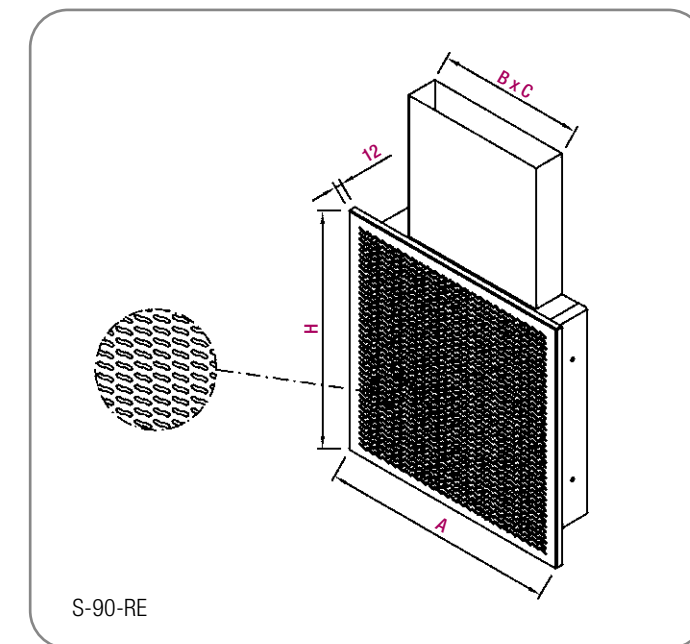
Selection table

Model	Q (m³/h)	L _{WA} [dB(A)]	ΔP _t (Pa)	X (m)
1250 x 200	355	25	6	4.0
	430	30	10	4.7
	515	35	14	5.7
1250 x 350	455	25	7	2.9
	545	30	10	3.5
	660	35	14	4.2
1450 x 500	540	25	6	2.0
	650	30	8	2.5
	785	35	12	3.0
1450 x 650	705	25	5	2.0
	850	30	7	2.5
	1,025	35	11	3.0

LEGEND

Q (m³/h): Air flow.
L_{WA} [dB(A)]: Power noise level.
ΔP_t (Pa): Pressure loss.
X (m): Horizontal throw of the air jet, when the velocity in the occupied area is 0.20 m/s for a temperature difference of ΔT = -3 °C.

General dimensions



S-90-RE

Product description

The S-90-RE's diffusers are specifically designed to be installed in parameters to blend into the room and reduce footprint

Accessories

-PT. Telescopic plenum.

Size	A	H	B	C
400 x 400	402	402	250	50
500 x 500	502	502	350	50
600 x 600	602	602	450	50
900 x 600	902	602	600	60

Unit mm

Selection table

Model	Q (m³/h)	L _{WA} [dB(A)]	ΔP _t (Pa)	X (m)
400 x 400	100	25	3	3.1
	120	30	5	3.7
	145	35	7	4.5
500 x 500	140	25	3	2.8
	170	30	4	3.3
	200	35	6	4.0
600 x 600	175	25	3	2.5
	215	30	4	3.0
	255	35	6	3.6
900 x 600	280	25	3	2.6
	335	30	4	3.1
	400	35	6	3.7

LEGEND

Q (m³/h): Air flow.
L_{WA} [dB(A)]: Power noise level.
ΔP_t (Pa): Pressure loss.
X (m): Horizontal throw of the air jet, when the velocity in the occupied area is 0.20 m/s for a temperature difference of ΔT = -3 °C.