

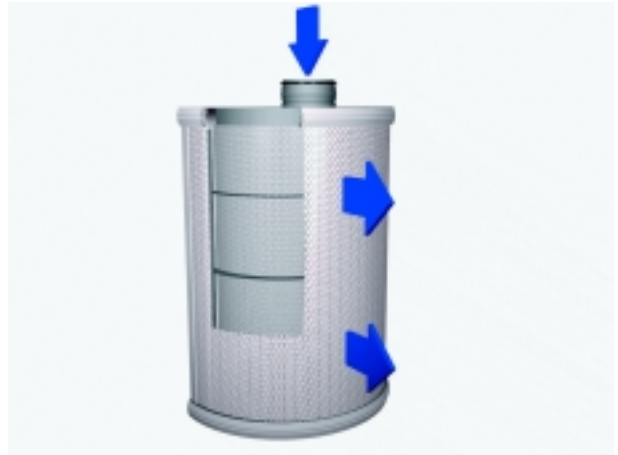


## FUNCTION

Air is supplied into the space through the front panel of the device, normally at a slightly lower temperature than the room. The incoming air flows down to floor level and gradually pervades the lower level of the occupied space. The low velocity flow pattern is semicircular, allowing workstations to be located adjacent the device.

## MATERIAL AND FINISHING

The AFP consists of a casing, removable front panel (10% perforation) and a fixed flow equalization inner structure. The unit is made of epoxy-painted galvanized steel, with white RAL 9010 (30% gloss) as the standard colour. The device contains a detachable coupling sleeve with a gasket.



## ACCESSORIES

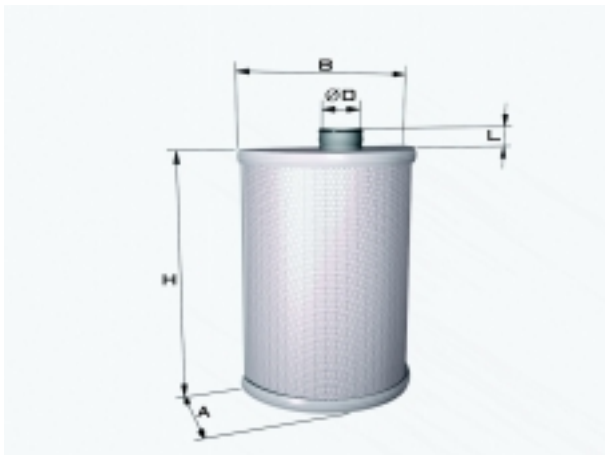
- AB/AFP : base (3).
- SB/AFP : base, store model.
- DC/AFP : duct cover 1000, 1500 or 2000 mm (2).

## OPTIONS

- Acid Proofed Steel AISI 316 construction.
- Thicker front panel (1.5 mm).
- Smaller connection for the unit.
- Duct cover (DC) made of perforated plate (same as AFP).



## DIMENSIONS

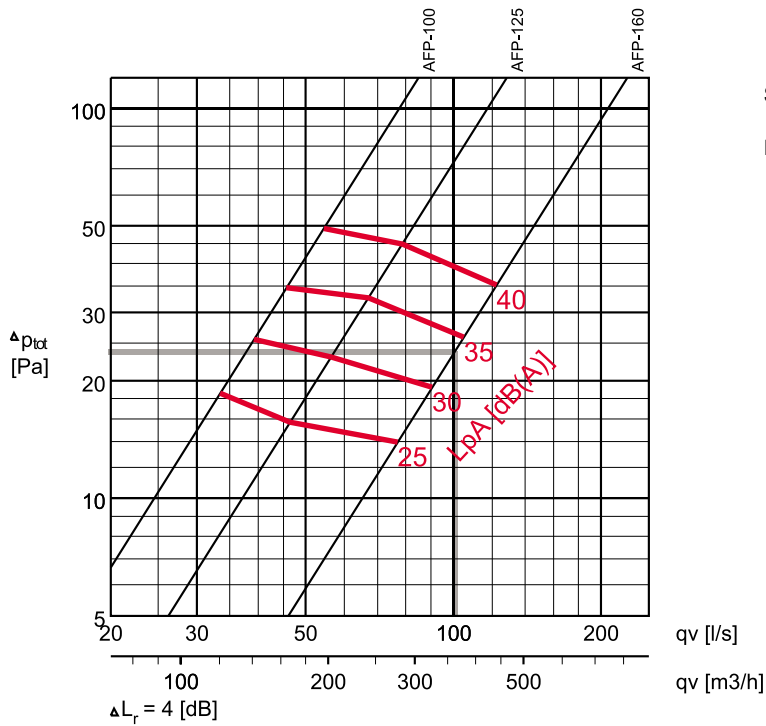


NS	A	B	D	H	L
100	185	424	99	600	40
125	210	484	124	600	40
160	255	584	159	800	40

- AB/AFP base : height = 50 mm .
- SB/AFP base store model : height = 200 mm, B=B+120, A=A+60

# PRESSURE DROP AND SOUND DATA, SUPPLY

AFP-100, AFP-125, AFP-160

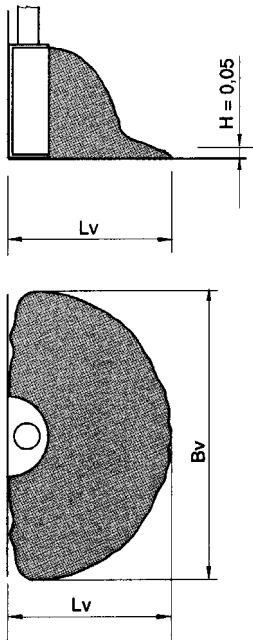


Selection example :

Requirements :  $q_v = 100 \text{ l/s}$   
 $L_{pA} \leq 35 \text{ dB(A)}$

Selection : AFP-160  
 $\Delta p_{tot} = 23 \text{ Pa}$   
 $L_{pA} = 34 \text{ dB(A)}$

## NEARZONE



H = 0,05 m	Qv		L <sub>pA</sub> [dB(A)]	ΔP <sub>tot</sub> (Pa)	v = 0,20 m/s		v = 0,35 m/s	
	(l/s)	(m³/h)			Lv (m)	Bv (m)	Lv (m)	Bv (m)
AFP-100	33	119	25	19	<0,5	<0,5	<0,5	<0,5
	39	140	30	26	<0,5	<0,5	<0,5	<0,5
	46	166	35	35	<0,5	<0,5	<0,5	<0,5
	54	194	40	49	<0,5	<0,5	<0,5	<0,5
	66	238	45	73	<0,5	<0,5	<0,5	<0,5
AFP-125	46	166	25	16	<0,5	<0,5	<0,5	<0,5
	56	202	30	23	<0,5	<0,5	<0,5	<0,5
	67	241	35	33	<0,5	<0,5	<0,5	<0,5
	79	284	40	45	<0,5	<0,5	<0,5	<0,5
	96	346	45	67	0,9	1,8	<0,5	<0,5
AFP-160	80	288	25	15	0,9	1,8	<0,5	<0,5
	90	324	30	19	1	2	<0,5	<0,5
	101	364	35	24	1,2	2,4	<0,5	<0,5
	119	428	40	33	1,3	2,6	<0,5	<0,5
	139	500	45	45	1,5	3	<0,5	<0,5

$\Delta L_r = 4 \text{ dB}$ ,  $\Delta T = -3^\circ\text{C}$

## SOUND LEVEL DATA, SUPPLY

	Qv		$\Delta P_{st}$ (Pa)	$\Delta P_{tot}$ (Pa)	F (Hz)								$L_{pA}$ [dB(A)]	NR	NC
	(l/s)	(m <sup>3</sup> /h)			63	125	250	500	1000	2000	4000	8000			
AFP-100	33	119	8	19	41	26	27	30	22	8	5	16	25	22	20
	39	140	11	26	42	27	31	35	28	18	11	17	30	27	25
	46	166	14	35	42	29	34	38	34	25	17	17	35	31	29
	54	194	20	49	43	31	38	43	41	33	24	18	40	37	35
AFP-125	46	166	7	16	40	26	28	30	22	8	5	16	25	22	20
	56	202	10	23	41	27	32	34	29	18	9	17	30	26	25
	67	241	15	33	42	28	36	38	35	27	13	18	35	31	30
	79	284	20	45	42	32	39	42	41	34	22	18	40	37	36
AFP-160	80	288	6	15	41	30	31	28	22	13	4	17	25	20	18
	90	324	7	19	42	31	34	33	29	20	10	18	30	25	24
	101	364	9	24	43	32	37	38	36	27	16	19	35	32	30
	119	428	12	33	43	33	39	42	41	34	23	23	40	37	36

$\Delta L_r = 4$  dB

## SPECIFICATION

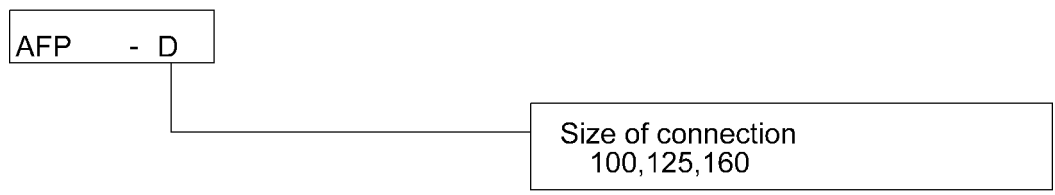
The Halton AFP displacement unit shall be furnished and installed where shown on the working drawings. The AFP shall be made of epoxy-painted galvanized steel, with a robust, maintenance free, non-clogging structure and white (RAL 9010) as the standard colour. The AFP shall incorporate a detachable perforated front panel, and an internal fixed flow equalization

element. Mounting brackets shall be included in the package.

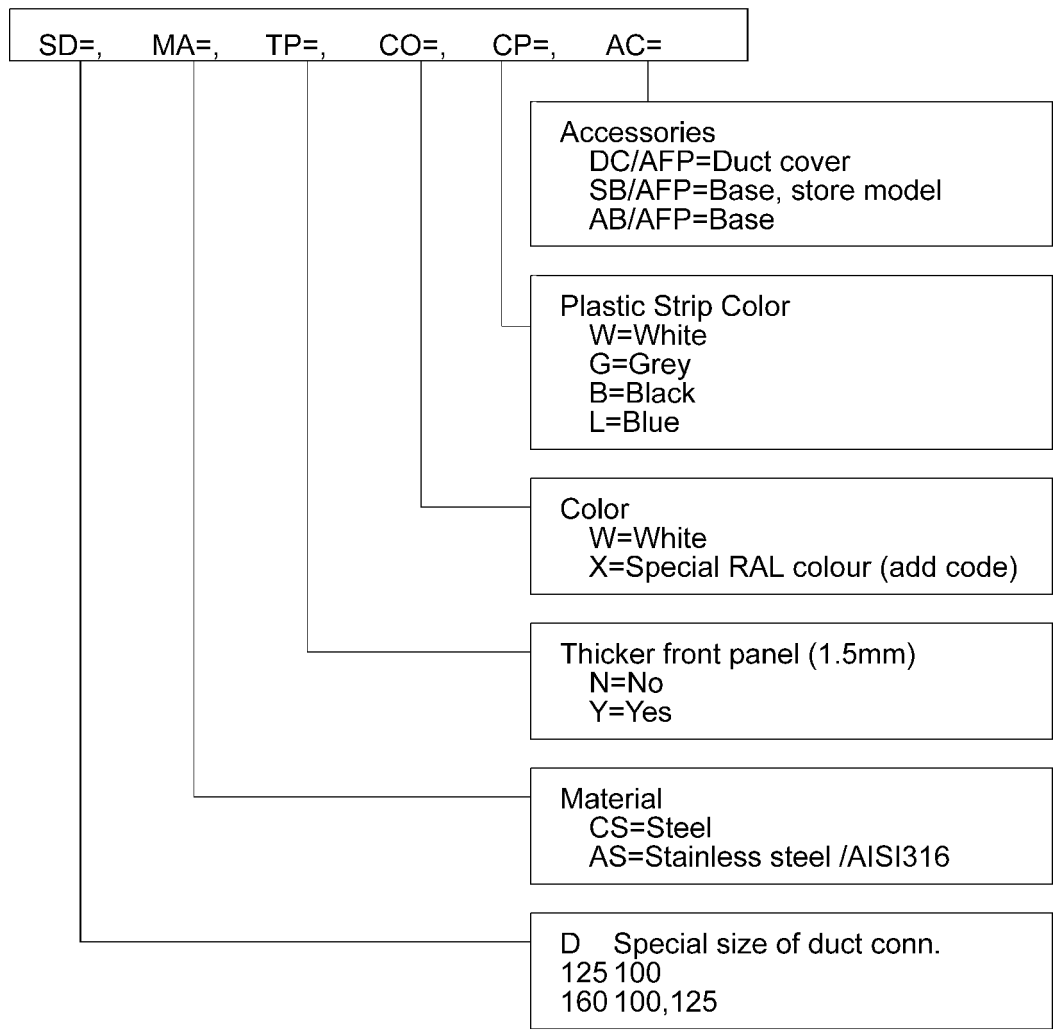
Air distribution into the occupied zone shall be over the entire surface area, with uniform low velocity and noise, even with large airflow rates.

A large range of accessories (duct cover, base, cover list) shall be available.

# PRODUCT CODE



## Specifics and accessories



## Example

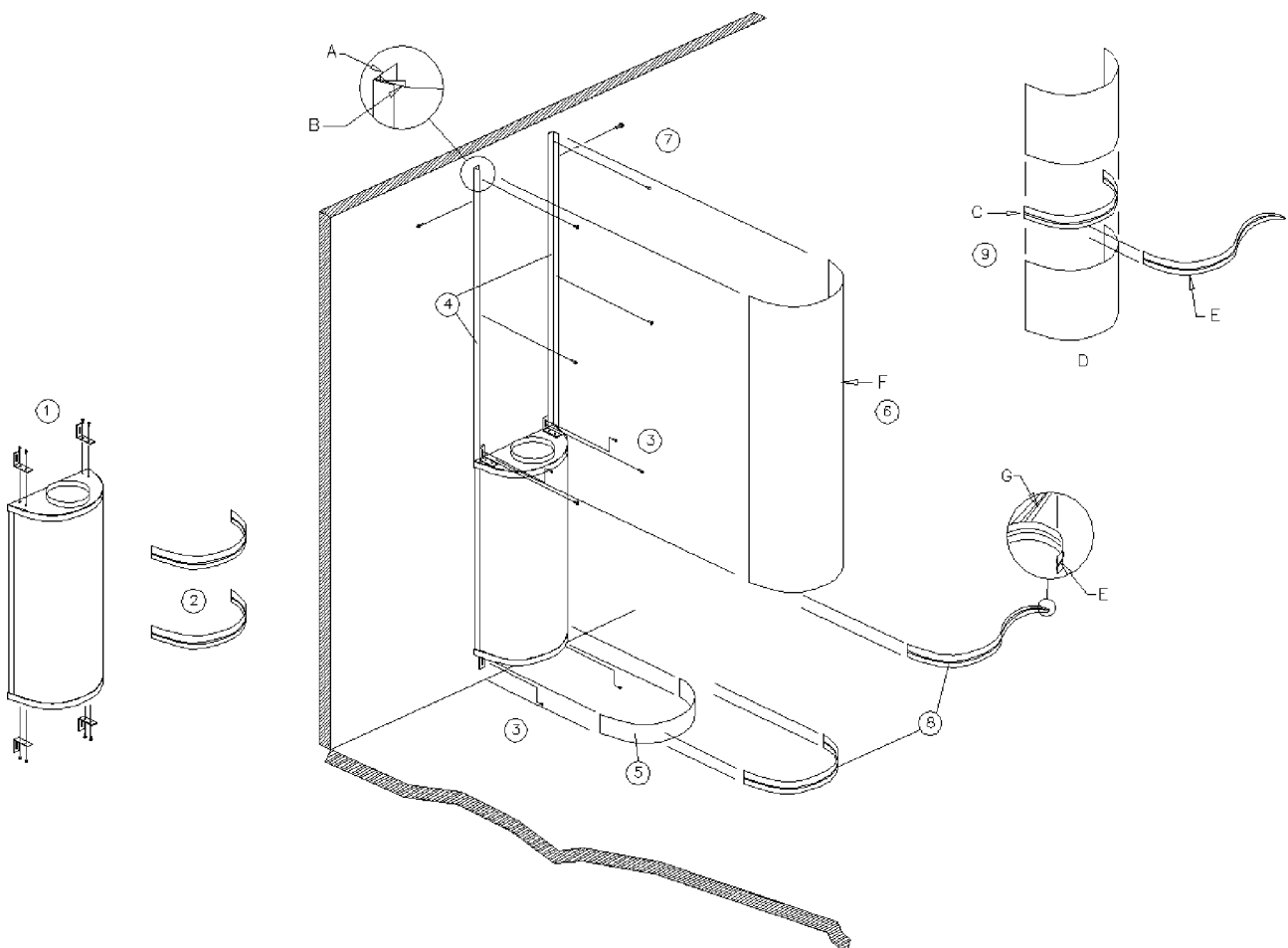
AFP-125; TP=Y;CO=W;CP=W;AC=DC,SB



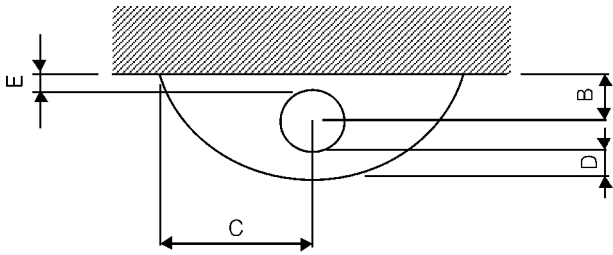
# INSTALLATION

Perform the installation in the numerical order.

1. Fix mounting brackets (4 places) to low velocity unit.
2. Remove plastic cover strips (E) from unit.
3. Locate unit against wall and secure through mounting brackets.
4. Fix duct cover support brackets (A) to wall between unit and ceiling.
5. Position AS base against lower flange of the unit.
6. After installation of ductwork, locate DC duct cover as follows :  
Locate DC duct cover section (F) on top flange (G)
7. Secure DC duct cover with screws through cover into support brackets fixed to wall (B).
8. Re-fit plastic cover strips between DC duct cover and AF unit, and between AS base and AF unit by bending strip back on itself (E) and pressing bead into groove in flange (G).
9. When multiple sections of DC duct cover are used (D) an aluminium coupling flange (C) is needed.



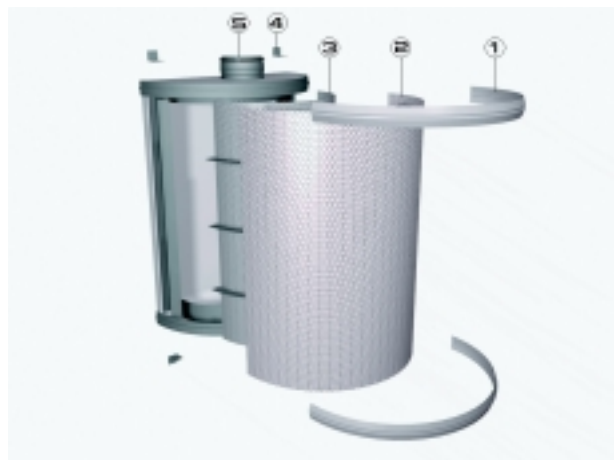
## DUCT INSTALLATION



	B	C	D	E
AFP-100	92	212	38	42
AFP-125	102	242	40	40
AFP-160	122	292	48	42

## SERVICE

To remove the front panel (2). First remove the plastic strips (1) and undo the screws under them. Pull out the front panel. If required, the inner structure (3) can be detached by undoing the fixing screws. Pull out the inner structure. Reassemble in reverse order. Clean the parts with a brush or damp cloth. Reassemble after cleaning.



NUMBER	NAME
1	PLASTIC STRIPS
2	FRONT PANEL
3	INNER STRUCTURE
4	MOUNTING BRACKETS
5	CASING

