

Panel Filter F211 Wedge Filter F221



TROX[®] TECHNİK

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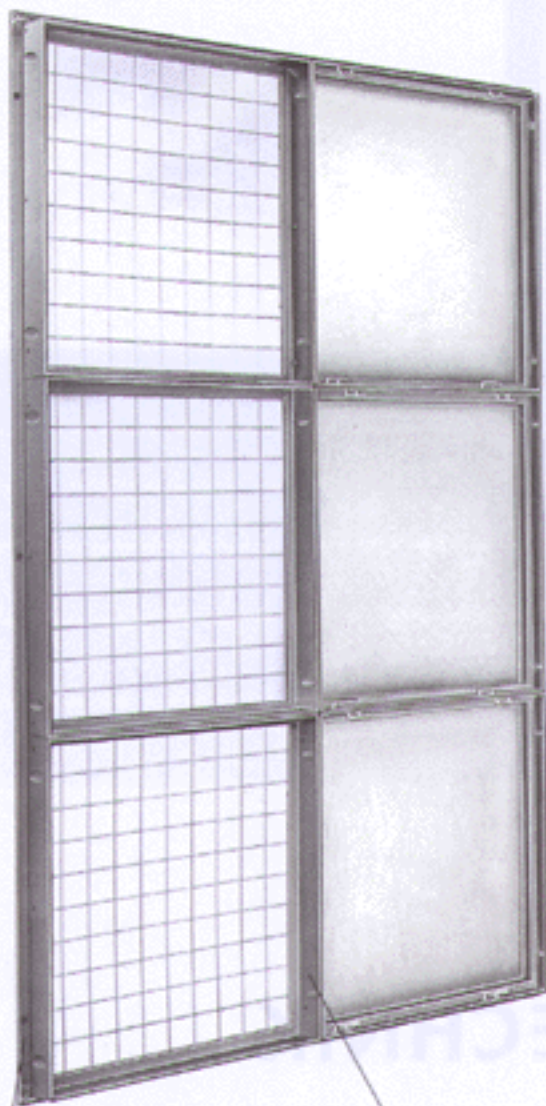
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Trox Panel Filter F 211



Special installation frame means simple fitting into position.

Standard cell frame as basic element of installation

Trox Wedge Filter F 221

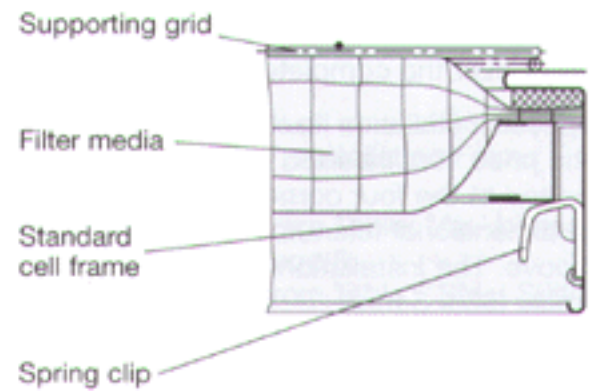


Filter housing consisting of airtight, pre-aligned parts held together by screws.

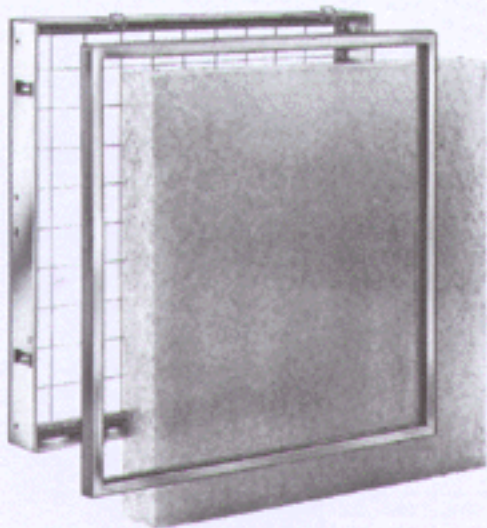
Wedge Filter gives a large area of media for a given cross-sectional area.

The standard cell frame from galvanised sheet steel supplied with or without support grid depending on the filter media selected.

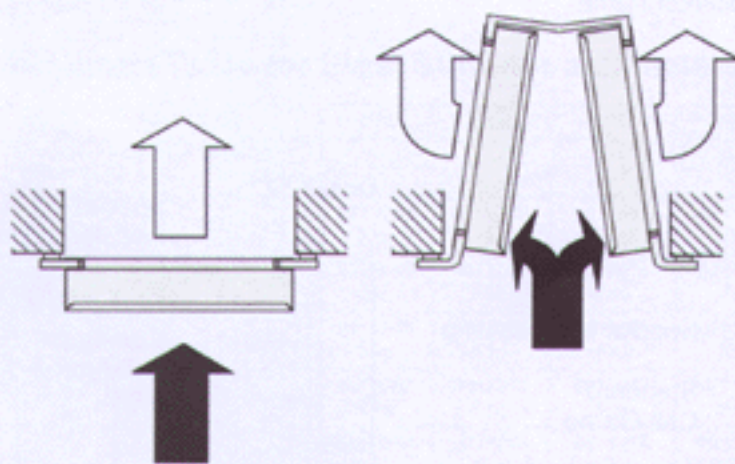
A clamping device with four spring clips gives a secure and permanent seal between filter media and cell frame, allowing rapid and efficient change of media.



Standard cell frame in normal construction
for servicing from the dirty air side.



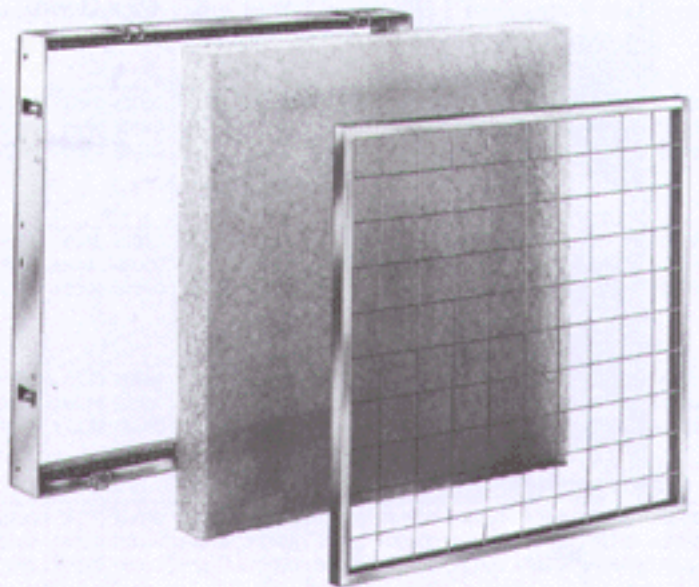
Clean air side



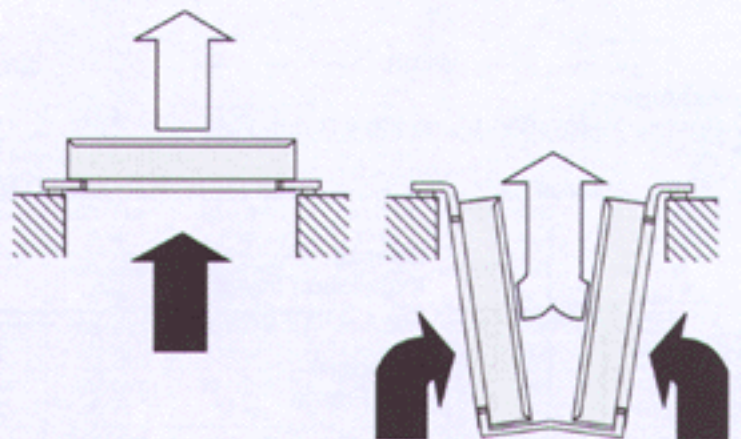
Dirty air side

Standard cell frame in reversed construction
for servicing from the clean air side.

When ordering please add **"Reverse"** to the order number for the standard model.



Clean air side

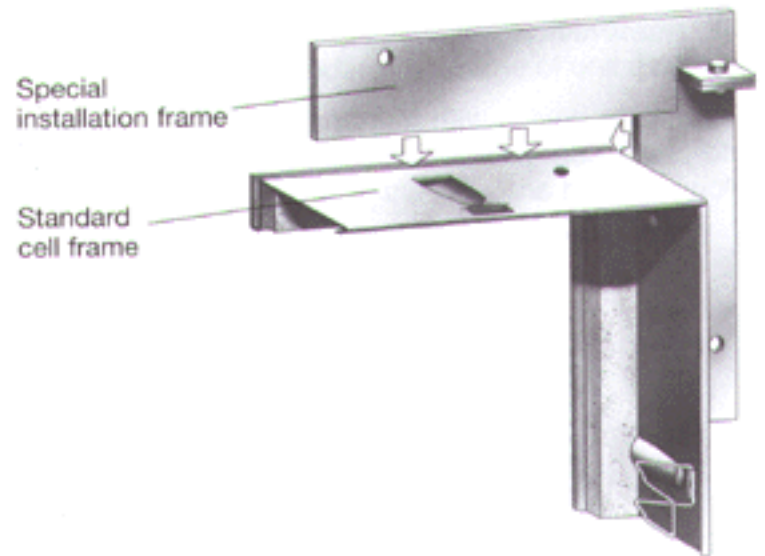


Dirty air side

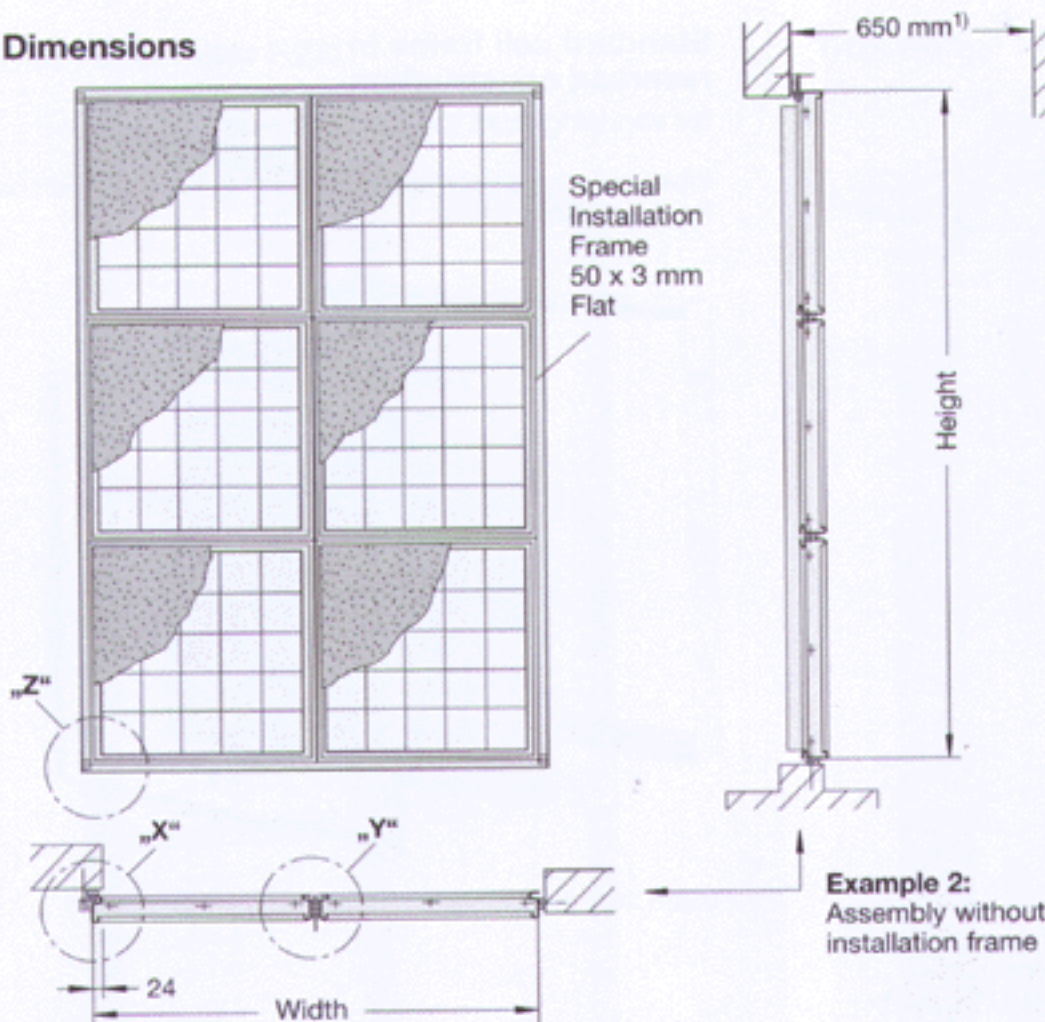
Panel Filter F 211

Trox Panel Filters F211 may be connected together up to 5 cell frames high and 10 cell frames wide. When more than 2 cells are mounted on top of each other a flat steel stiffener is inserted between the cell frames to ensure a rigid assembly over the complete height.

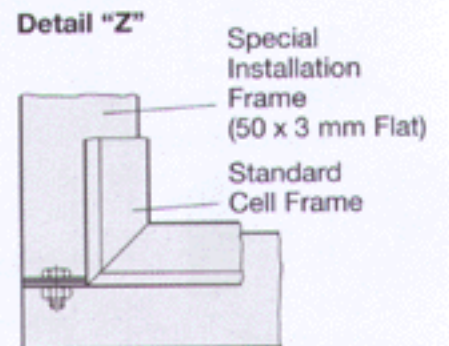
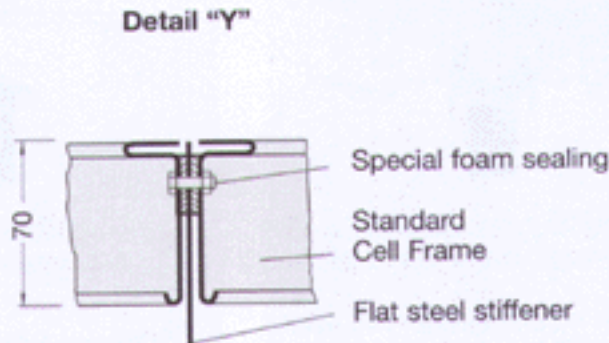
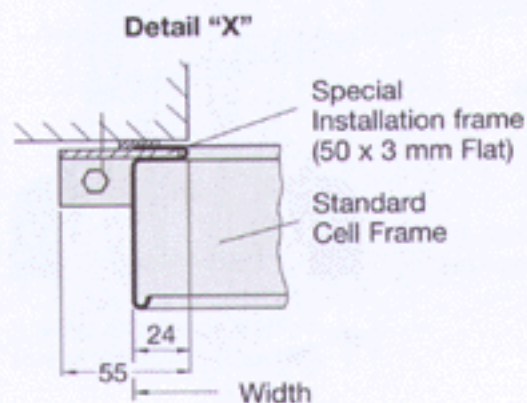
The special installation frame ensures simple erection at a realistic price. It is inserted into the groove of the cell frame and bolted at the four corners. No adjustment is necessary as the dimensional tolerances are taken up by the depth of the groove. The installation frame consists of a galvanized flat profile (50 x 3 mm).



Dimensions



Example 1:
Special Installation frame (50 x 3 mm Flat)



All items illustrated are included in Trox supply.

Holes for connecting bolts are to be drilled on site by others.

¹)Space for media replacement

Selection Table

Order Example F 211

Given:

Air Volume 18 670 l/s
67 200 m³/h
Width 4295 mm
Height 1830 mm
Media: Trox-o-fil F 702 Mat

Solution:

21 off cell frames

3 off steel stiffeners
Installation Frame

Order No. F211 M01

From Table: "Air Volume"
Page 8

Order No. B211 CA5
Order No. B211 DV6

From Table: "Steel Stiffener,
Installation frame"

Selection Table for Dimensions and Volume Flow

Hght. in mm	Width in mm		610		1220		1835		2450		3065		3675		4295		4905		5525		6135	
	Air velocity in m/s	No. Horizontal Cells ▶ No. Vertical Cells ▼	1		2		3		4		5		6		7		8		9		10	
			V in l/s	V in m ³ /h	V in l/s	V in m ³ /h	V in l/s	V in m ³ /h	V in l/s	V in m ³ /h	V in l/s	V in m ³ /h	V in l/s	V in m ³ /h	V in l/s	V in m ³ /h	V in l/s	V in m ³ /h	V in l/s	V in m ³ /h	V in l/s	V in m ³ /h
610	0.9	1	310	1100	610	2200	920	3300	1220	4400	1530	5500	1830	6600	2140	7700	2440	8800	2750	9900	3060	11000
	2.0		690	2500	1390	5000	2080	7500	2780	10000	3470	12500	4170	15000	4860	17500	5560	20000	6250	22500	6940	25000
	2.5		890	3200	1780	6400	2670	9600	3560	12800	4440	16000	5330	19200	6220	22400	7110	25600	8000	28800	8890	32000
	Number of cell frames		1		2		3		4		5		6		7		8		9		10	
	Weight in kg		3.5		7		10.5		14		17.5		21		24.5		28		31.5		35	
1220	0.9	2	610	2200	1220	4400	1830	6600	2440	8800	3060	11000	3670	13200	4280	15400	4890	17600	5500	19800	6110	22000
	2.0		1390	5000	2780	10000	4170	15000	5560	20000	6940	25000	8330	30000	9720	35000	11110	40000	12500	45000	13890	50000
	2.5		1780	6400	3560	12800	5330	19200	7110	25600	8890	32000	10670	38400	12440	44800	14220	51200	16000	57600	17780	64000
	Number of cell frames		2		4		6		8		10		12		14		16		18		20	
	Weight in kg		7		14		21		28		35		42		49		56		63		70	
1830	0.9	3	920	3300	1830	6600	2750	9900	3670	13200	4580	16500	5500	19800	6420	23100	7330	26400	8250	29700	9170	33000
	2.0		2080	7500	4170	15000	6250	22500	8330	30000	10420	37500	12500	45000	14580	52500	16670	60000	18750	67500	20830	75000
	2.5		2670	9600	5330	19200	8000	28800	10670	38400	13330	48000	16000	57600	18670	67200	21330	76800	24000	86400	26670	96000
	Number of cell frames		3		6		9		12		15		18		21		24		27		30	
	Weight in kg		10.5		21		31.5		42		52.5		63		73.5		84		94.5		105	
2440	0.9	4	1220	4400	2440	8800	3670	13200	4890	17600	6110	22000	7330	26400	8560	30800	9780	35200	11000	39600	12220	44000
	2.0		2780	10000	5560	20000	8330	30000	11110	40000	13890	50000	16670	60000	19440	70000	22220	80000	25000	90000	27780	100000
	2.5		3560	12800	7110	25600	10670	38400	14220	51200	17780	64000	21330	76800	24890	89600	28440	102400	32000	115200	35560	128000
	Number of cell frames		4		8		12		16		20		24		28		32		36		40	
	Weight in kg		14		28		42		56		70		84		98		112		126		140	
3050	0.9	5	1530	5500	3060	11000	4580	16500	6110	22000	7640	27500	9170	33000	10690	38500	12200	44000	13750	49500	15280	55000
	2.0		3470	12500	6940	25000	10420	37500	13890	50000	17360	62500	20830	75000	24310	87500	27780	100000	31250	112500	34720	125000
	2.5		4440	16000	8890	32000	13330	48000	17780	64000	22220	80000	26670	96000	31110	112000	35560	128000	40000	144000	44440	160000
	Number of cell frames		5		10		15		20		25		30		35		40		45		50	
	Weight in kg		17.5		35		52.5		70		87.5		105		122.5		140		157.5		175	

Selection Table for Steel Stiffener and Installation Frame

Hght. in mm	Width in mm		610		1220		1835		2450		3065		3675		4295		4905		5525		6135	
	Flat Steel Stiffener Order number	Weight	Special Installation Frame Order number and Weight																			
610	-	-	B211DS4 2 kg	B211DS9 3 kg	B211DT4 5 kg	B211DT9 6 kg	B211DU4 7 kg	B211DU9 8 kg	B211DV4 9 kg	B211DV9 10 kg	B211DW4 12 kg	B211DW9 13 kg										
1220	-	-	B211DS5 3 kg	B211DT0 5 kg	B211DT5 6 kg	B211DU0 7 kg	B211DU5 8 kg	B211DV0 9 kg	B211DV5 10 kg	B211DW0 12 kg	B211DW5 13 kg	B211DX0 14 kg										
1830	B211CA5	4 kg / pce.	B211DS6 5 kg	B211DT1 6 kg	B211DT6 7 kg	B211DU1 8 kg	B211DU6 9 kg	B211DV1 10 kg	B211DV6 12 kg	B211DW1 13 kg	B211DW6 14 kg	B211DX1 15 kg										
2440	B211CA8	5 kg / pce.	B211DS7 6 kg	B211DT2 7 kg	B211DT7 8 kg	B211DU2 9 kg	B211DU7 10 kg	B211DV2 12 kg	B211DV7 13 kg	B211DW2 14 kg	B211DW7 15 kg	B211DX2 16 kg										
3050	B211CP9	6 kg / pce.	B211DS8 7 kg	B211DT3 8 kg	B211DT8 9 kg	B211DU3 10 kg	B211DU8 12 kg	B211DV3 13 kg	B211DV8 14 kg	B211DW3 15 kg	B211DW8 16 kg	B211DX3 17 kg										
	Number of steel stiffeners		-	-	1	1	2	2	3	3	4	4										

Wedge Filter F 221

Trox Wedge Filter F 221 is assembled from standard cell frames and components comprising uprights, cover and bottom plates all in galvanised steel. The filter assembly can comprise up to 100 cells, i. e. max. 5 cells high by 10 V-cells wide.

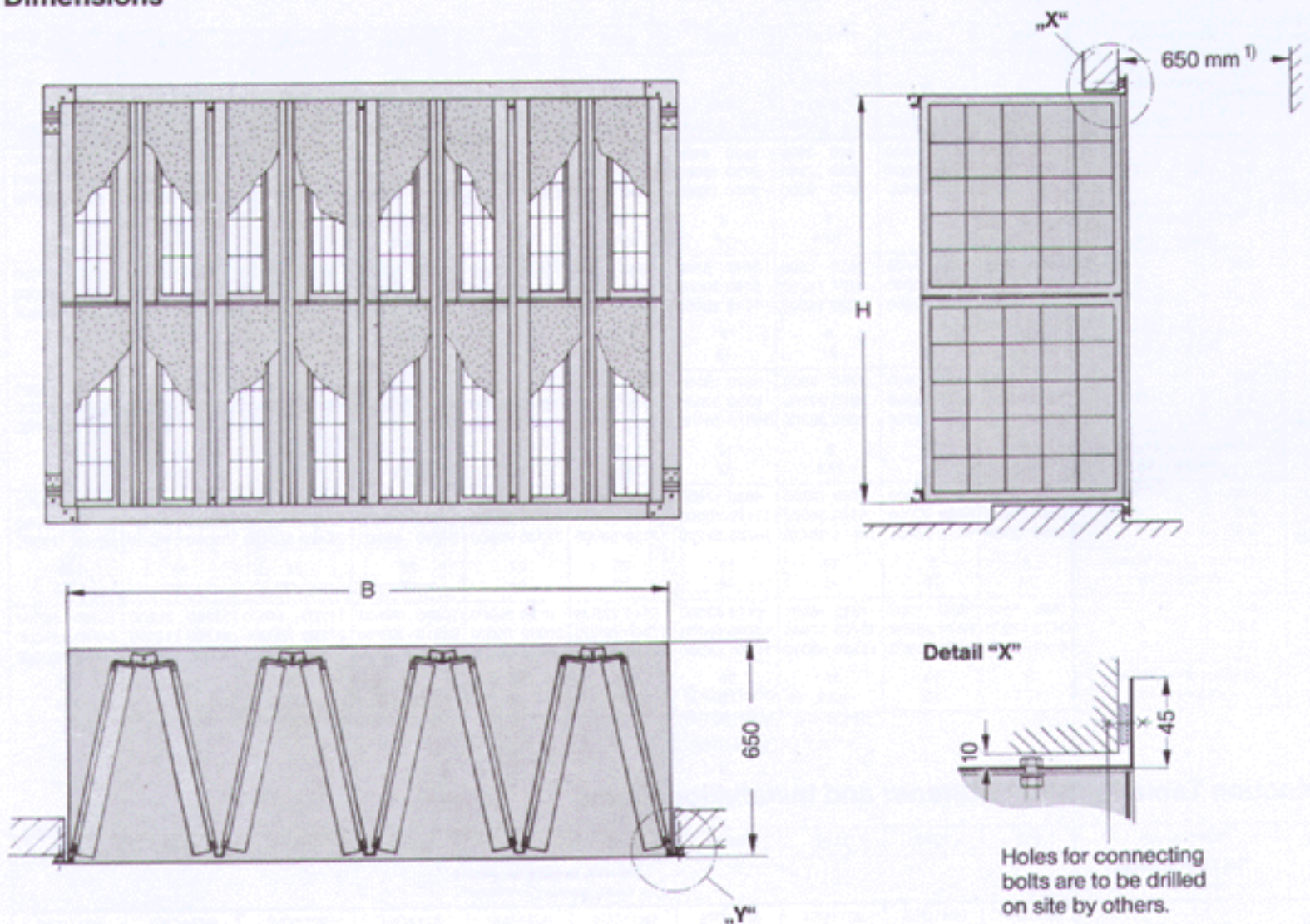
The width of the filter bank can be varied in increments of 450 mm and the height in increments of 615 mm.

The Wedge Filter is supplied in compact parts for assembly on site. The assembly on site is extremely simple and quick. The corner joints ensure that the filter housing is secure, square and rigidly positioned.

Plastic foam linings on the cover and bottom plates form a perfect seal for the contact faces of the cell frames at this point. The free edges of the uprights which are coated with plastic foam form a positive seal for the cell frames held by them.

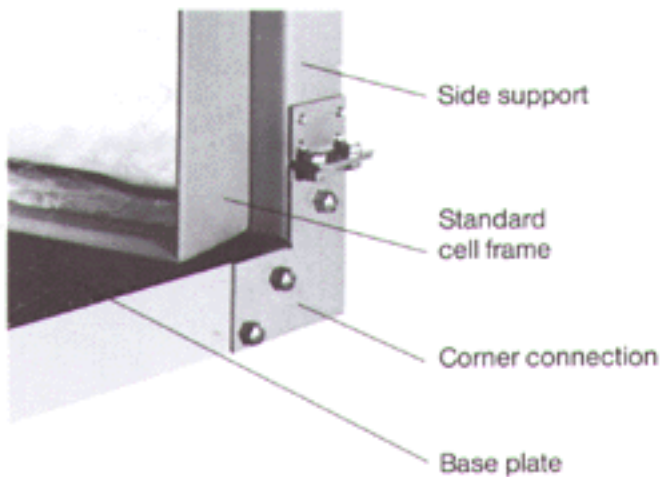
Adequate sealing material is included for the erection of the filter.

Dimensions



¹⁾ Space for media replacement

Selection Table

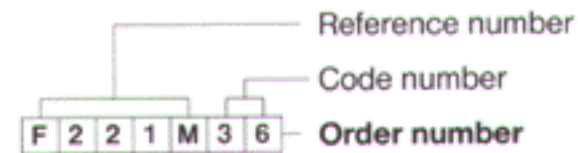


Order Example F 221

Data given:
 Volume flow: 32000 l/s
 115200 m³/h

Media: Trox-o-fil F 702 mat

Trox Wedge Filter (from table "Filter Media Data" page 8)
 with Trox-o-fil F 702 (from table "Dimensions and Volume Flow")
 Width: 2700 mm
 Height: 1840 mm



Selection Table for Dimensions and Volume Flow

Hght. in mm	Width in mm		450		900		1350		1800		2250		2700		3150		3600		4050		4500	
	Air Velocity in m/s	No. of cells horizontal ▼ vertical	1		2		3		4		5		6		7		8		9		10	
			V in l/s	V in m ³ /h	V in l/s	V in m ³ /h	V in l/s	V in m ³ /h	V in l/s	V in m ³ /h	V in l/s	V in m ³ /h	V in l/s	V in m ³ /h	V in l/s	V in m ³ /h	V in l/s	V in m ³ /h	V in l/s	V in m ³ /h	V in l/s	V in m ³ /h
617	0.9	1	610	2200	1220	4400	1830	6600	2440	8800	3060	11000	3670	13200	4280	15400	4890	17600	5500	19800	6110	22000
	2.0		1390	5000	2780	10000	4170	15000	5560	20000	6940	25000	8330	30000	9720	35000	11110	40000	12500	45000	13890	50000
	2.5		1780	6400	3560	12800	5330	19200	7110	25600	8890	32000	10670	38400	12440	44800	14220	51200	16000	57600	17780	64000
	Number of cell frames		2	4	6	8	10	12	14	15	16	17	18	19	20							
Weight in kg		22	44	66	88	110	131	153	1785	196	218											
Code number		11	12	13	14	15	16	17	18	19	20											
1230	0.9	2	1220	4400	2440	8800	3670	13200	4890	17600	6110	22000	7330	26400	8560	30800	9780	35200	11000	39600	12220	44000
	2.0		2780	10000	5560	20000	8330	30000	11110	40000	13890	50000	16670	60000	19440	70000	22220	80000	25000	90000	27780	100000
	2.5		3560	12800	7110	25600	10670	38400	14220	51200	17780	64000	21330	76800	24890	89600	28440	102400	32000	115200	35560	128000
	Number of cell frames		4	8	12	16	20	24	28	32	36	40										
Weight in kg		34	67	99	132	164	196	229	261	294	327											
Code number		21	22	23	24	25	26	27	28	29	30											
1840	0.9	3	1830	6600	3670	13200	5500	19800	7330	26400	9170	33000	11000	39600	12830	46200	14670	52800	16500	59400	18330	66000
	2.0		4170	15000	8330	30000	12500	45000	16670	60000	20830	75000	25000	90000	29170	105000	33330	120000	37500	135000	41670	150000
	2.5		5330	19200	10670	38400	16000	57600	21330	76800	26670	96000	32000	115200	37330	134400	42670	153600	48000	172800	53330	192000
	Number of cell frames		6	12	18	24	30	36	42	48	54	60										
Weight in kg		46	89	132	176	220	262	305	348	392	436											
Code number		31	32	33	34	35	36	37	38	39	40											
2455	0.9	4	2440	8800	4890	17600	7330	26400	9780	35200	12220	44000	14670	52800	17110	61800	19560	70400	22000	79200	24440	88000
	2.0		5560	20000	11110	40000	16670	60000	22220	80000	27780	100000	33330	120000	38890	140000	44440	160000	50000	180000	55560	200000
	2.5		7110	25600	14220	51200	21330	76800	28440	102400	35560	128000	42670	153600	49780	179200	56890	204800	64000	230400	74110	256000
	Number of cell frames		8	16	24	32	40	48	56	64	72	80										
Weight in kg		58	112	165	220	275	329	382	436	491	546											
Code number		41	42	43	44	45	46	47	48	49	50											
3065	0.9	5	3060	11000	6110	22000	9170	33000	12220	44000	15280	55000	18330	66000	21390	77000	24440	88000	27500	99000	30560	110000
	2.0		6940	25000	13890	50000	20830	75000	27780	100000	34720	125000	41670	150000	48610	175000	55560	200000	62500	225000	69440	250000
	2.5		8890	32000	17780	64000	26670	96000	35560	128000	44440	160000	53330	192000	62220	224000	71110	256000	80000	288000	88890	320000
	Number of cell frames		10	20	30	40	50	60	70	80	90	100										
Weight in kg		70	134	199	265	330	395	459	523	590	655											
Code number		51	52	53	54	55	56	57	58	59	60											

Specification Text

Item	Qty.	Description
		<p>Trox Panel Filter F211, consisting of:</p> <p>Standard cell frame with clamping device for fastening and sealing of the filter media.</p> <p>1 set of Filter media.</p> <p>Special Installation Frame.</p> <p>Flat Steel Stiffeners.</p> <p>Joint bolts and sealing material with detailed erection and servicing instructions.</p> <p>Non-returnable packing.</p>
		<p>Trox Wedge Filter F221, consisting of:</p> <p>Housing and mounting frame in galvanised steel supplied in kit form for site assembly.</p> <p>Parts are easily assembled and the screw fixing ensures accurate erection and airtight sealing.</p> <p>Standard Cell Frame with clamping device for fastening and sealing of the filter media.</p> <p>1 set of Filter media.</p> <p>Joining bolts and sealing material with detailed erection and servicing instructions.</p> <p>Non-returnable packing.</p>
		<p>Technical Data:</p> <p>Air Volume _____ l/s (m³/h)</p> <p>Width _____ mm</p> <p>Height _____ mm</p> <p>Filter class to EN 779 _____</p> <p>Average synthetic dust weight arrestance _____ %</p> <p>Initial Pressure Differential _____ Pa</p> <p>Net Weight _____ kg</p> <p>Order No. _____</p> <p>Manufacture: Trox</p>
		Price/Enclosure