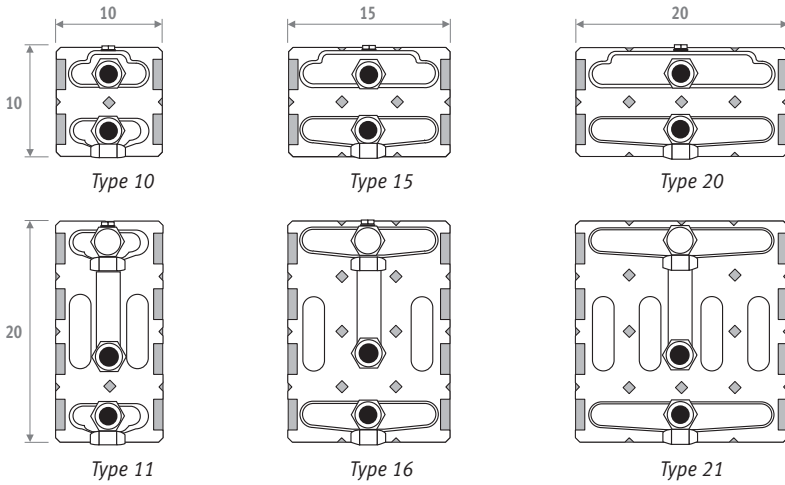




**jaga**

**LINEA PLUS**  
Technical information

# LINEA PLUS ■ OVERVIEW HEAT EXCHANGERS



Weight and water content without packaging or options.

## WALL MOUNTED MODEL WEIGHT IN KG

Type	H	20	35	50	65	95
10		5.9	8.2	10.6	13.0	15.4
11	---		9.7	12.1	14.4	19.1
15		7.0	9.5	12.1	14.7	17.0
16	---		12.0	14.6	17.2	22.4
20		8.2	11.0	13.8	16.7	18.8
21	---		14.3	17.1	19.9	25.6

## WATER CONTENT (IN LITRES/METRE)

Type	All heights
10	0.65
11	1.33
15	0.98
16	1.98
20	1.32
21	2.66

## FREESTANDING MODEL WEIGHT IN KG

Type	H	20	35
10		10.2	14.3
11	---		15.8
15		11.5	15.9
16	---		18.6

# CORRECTION FACTORS - LINEA PLUS

## AVERAGE CORRECTION FACTORS ACCORDING TO EN442 - 75/65/20°C

Tv	Tl	Tr	25	30	35	40	45	50	55	60	65	70	75	80	85
90	18		0.45	0.58	0.69	0.79	0.89	0.98	1.07	1.16	1.24	1.34	1.41	1.49	1.56
	20		0.38	0.52	0.63	0.74	0.83	0.92	1.01	1.10	1.18	1.28	1.35	1.43	1.50
	22		0.30	0.46	0.57	0.68	0.78	0.87	0.96	1.04	1.13	1.22	1.30	1.37	1.44
	24		0.20	0.39	0.52	0.62	0.72	0.81	0.90	0.99	1.07	1.15	1.24	1.31	1.38
85	18		0.42	0.54	0.65	0.75	0.84	0.93	1.01	1.10	1.20	1.27	1.34	1.41	
	20		0.36	0.49	0.59	0.69	0.79	0.87	0.96	1.04	1.12	1.21	1.28	1.35	
	22		0.28	0.42	0.54	0.64	0.73	0.82	0.90	0.99	1.06	1.15	1.22	1.30	
	24		0.19	0.36	0.48	0.58	0.68	0.76	0.85	0.93	1.01	1.10	1.17	1.24	
80	18		0.39	0.51	0.61	0.70	0.79	0.88	0.96	1.04	1.12	1.20	1.27		
	20		0.33	0.45	0.56	0.65	0.74	0.82	0.90	0.98	1.07	1.14	1.21		
	22		0.26	0.39	0.50	0.60	0.68	0.77	0.85	0.93	1.01	1.08	1.15		
	24		0.17	0.34	0.45	0.54	0.63	0.72	0.80	0.87	0.96	1.03	1.10		
75	18		0.37	0.47	0.57	0.66	0.74	0.82	0.90	0.99	1.05	1.12			
	20		0.30	0.42	0.52	0.61	0.69	0.77	0.85	0.93	1.00	1.07			
	22		0.24	0.36	0.46	0.55	0.64	0.72	0.79	0.88	0.95	1.01			
	24		0.16	0.31	0.41	0.50	0.59	0.67	0.74	0.83	0.89	0.96			
70	18		0.34	0.44	0.53	0.61	0.69	0.77	0.85	0.92	0.99				
	20		0.28	0.39	0.48	0.56	0.64	0.72	0.80	0.87	0.93				
	22		0.22	0.33	0.43	0.51	0.59	0.67	0.74	0.81	0.88				
	24		0.14	0.28	0.38	0.46	0.54	0.62	0.69	0.76	0.83				
65	18		0.31	0.40	0.49	0.57	0.64	0.71	0.79	0.85					
	20		0.25	0.35	0.44	0.52	0.59	0.66	0.74	0.80					
	22		0.19	0.30	0.39	0.47	0.54	0.61	0.69	0.75					
	24		0.12	0.25	0.34	0.42	0.50	0.57	0.64	0.70					
60	18		0.28	0.37	0.45	0.52	0.59	0.66	0.73						
	20		0.23	0.32	0.40	0.47	0.54	0.62	0.68						
	22		0.17	0.27	0.35	0.43	0.50	0.57	0.63						
	24		0.11	0.23	0.31	0.38	0.45	0.52	0.58						
55	18		0.25	0.33	0.40	0.47	0.55	0.60							
	20		0.20	0.29	0.36	0.43	0.50	0.56							
	22		0.15	0.24	0.32	0.38	0.45	0.51							
	24		0.09	0.20	0.27	0.34	0.40	0.47							
50	18		0.22	0.30	0.36	0.43	0.49								
	20		0.18	0.25	0.32	0.38	0.44								
	22		0.13	0.21	0.28	0.34	0.40								
	24		0.08	0.17	0.24	0.30	0.36								
45	18		0.19	0.26	0.32	0.38									
	20		0.15	0.22	0.28	0.34									
	22		0.11	0.18	0.24	0.30									
	24		0.06	0.14	0.20	0.26									
40	18		0.16	0.22	0.28										
	20		0.12	0.18	0.24										
	22		0.09	0.15	0.20										
	24		0.05	0.12	0.17										
35	18		0.13	0.19											
	20		0.10	0.15											
	22		0.07	0.12											
	24		0.03	0.09											
30	18		0.10												
	20		0.07												
	22		0.04												
	24		0.02												

The indicated outputs with  $\Delta T$  50 and  $\Delta T$  60 are the exact outputs.  $\Delta T$  50 output measured in accordance with EN 442 and  $\Delta T$  60 output calculated according to EN 442. An average correction factor is given in this table for all other  $\Delta T$  outputs, applicable for all dimensions.

# LINEA PLUS WITH DBE CORRECTION FACTORS


AVERAGE CORRECTION FACTORS  
ACCORDING TO EN442 - 75/65/20°C



Tv	Tl	Tr	25	30	35	40	45	50	55	60	65	70	75	80	85
90	18		0.56	0.67	0.76	0.84	0.92	0.99	1.05	1.11	1.17	1.24	1.29	1.34	1.39
	20		0.49	0.62	0.71	0.80	0.87	0.94	1.01	1.07	1.13	1.20	1.25	1.30	1.35
	22		0.42	0.56	0.66	0.75	0.83	0.90	0.97	1.03	1.09	1.16	1.21	1.26	1.31
	24		0.31	0.50	0.61	0.71	0.79	0.86	0.93	0.99	1.05	1.11	1.17	1.22	1.27
85	18		0.53	0.64	0.73	0.81	0.88	0.95	1.01	1.07	1.14	1.19	1.24	1.29	
	20		0.47	0.59	0.68	0.76	0.84	0.91	0.97	1.03	1.09	1.15	1.20	1.25	
	22		0.39	0.53	0.63	0.72	0.79	0.86	0.93	0.99	1.05	1.11	1.16	1.21	
	24		0.29	0.47	0.58	0.67	0.75	0.82	0.89	0.95	1.01	1.07	1.12	1.17	
80	18		0.50	0.61	0.70	0.77	0.84	0.91	0.97	1.03	1.09	1.14	1.19		
	20		0.44	0.56	0.65	0.73	0.80	0.87	0.93	0.99	1.05	1.10	1.15		
	22		0.37	0.50	0.60	0.68	0.76	0.82	0.89	0.95	1.01	1.06	1.11		
	24		0.27	0.45	0.55	0.64	0.71	0.78	0.85	0.91	0.97	1.02	1.07		
75	18		0.48	0.58	0.66	0.74	0.80	0.87	0.93	0.99	1.04	1.09			
	20		0.42	0.53	0.62	0.69	0.76	0.82	0.88	0.95	1.00	1.05			
	22		0.35	0.48	0.57	0.65	0.72	0.78	0.84	0.91	0.96	1.01			
	24		0.25	0.42	0.52	0.60	0.68	0.74	0.80	0.87	0.92	0.97			
70	18		0.45	0.55	0.63	0.70	0.76	0.82	0.89	0.94	0.99				
	20		0.39	0.50	0.58	0.65	0.72	0.78	0.85	0.90	0.95				
	22		0.32	0.45	0.54	0.61	0.68	0.74	0.80	0.86	0.91				
	24		0.24	0.39	0.49	0.57	0.64	0.70	0.76	0.82	0.87				
65	18		0.42	0.51	0.59	0.66	0.72	0.78	0.84	0.89					
	20		0.36	0.47	0.55	0.62	0.68	0.74	0.80	0.85					
	22		0.30	0.42	0.50	0.57	0.64	0.70	0.76	0.81					
	24		0.22	0.36	0.46	0.53	0.60	0.66	0.72	0.77					
60	18		0.39	0.48	0.55	0.62	0.68	0.74	0.79						
	20		0.34	0.43	0.51	0.58	0.64	0.70	0.75						
	22		0.28	0.39	0.47	0.54	0.60	0.66	0.71						
	24		0.20	0.33	0.42	0.49	0.56	0.62	0.67						
55	18		0.36	0.44	0.51	0.58	0.64	0.69							
	20		0.31	0.40	0.47	0.54	0.60	0.65							
	22		0.25	0.35	0.43	0.49	0.55	0.61							
	24		0.17	0.30	0.39	0.45	0.51	0.57							
50	18		0.33	0.41	0.47	0.53	0.59								
	20		0.28	0.36	0.43	0.49	0.55								
	22		0.22	0.32	0.39	0.45	0.51								
	24		0.15	0.27	0.35	0.41	0.47								
45	18		0.30	0.37	0.43	0.49									
	20		0.25	0.33	0.39	0.45									
	22		0.20	0.28	0.35	0.41									
	24		0.13	0.24	0.31	0.37									
40	18		0.26	0.33	0.39										
	20		0.22	0.29	0.35										
	22		0.17	0.25	0.31										
	24		0.11	0.20	0.27										
35	18		0.23	0.29											
	20		0.18	0.25											
	22		0.14	0.21											
	24		0.08	0.16											
30	18		0.19												
	20		0.14												
	22		0.10												
	24		0.06												

The indicated outputs with  $\Delta T$  50 and  $\Delta T$  60 are the exact outputs.  $\Delta T$  50 output measured in accordance with EN 442 and  $\Delta T$  60 output calculated according to EN 442. An average correction factor is given in this table for all other  $\Delta T$  outputs, applicable for all dimensions.

# LINEA PLUS WITH DBE CORRECTION FACTORS SOUND



Using DBE:  
max. flow temperature 75°C  
max. air humidity 95% R.H.

number of units	NOISE PRESSURE COMFORT dB(A)						MAX. MEASURED POWER (Watts)					
	1	2	3	4	5	6	1	2	3	4	5	6
DBEU.10	29.0	32.0	33.8	35.0	36.0	36.8	2.8	5.6	8.4	11.2	14	16.8
DBEU.15	27.0	30.0	31.8	33.0	34.0	34.8	2.2	4.4	6.6	8.8	11	13.2

NOISE PRESSURE 1 UNIT dB(A)		
Type	Comfort	Boost
DBEU.10	29	35
DBEU.15	27	31

Reverberation time RT60 0.6 s  
reference room V<sub>1</sub> 80m<sup>3</sup>  
Reference pressure P<sub>0</sub> 2.10<sup>-5</sup>Pa

SEVERAL APPLIANCES WITH AN EQUAL SOUND LEVEL IN A ROOM	
number [dB(A)]	Correction [dB(A)]
2	+ 3.0
3	+ 4.8

$P_2 = P_1 + 10 \log n$   
P<sub>1</sub> = sound level one appliance  
P<sub>2</sub> = sound pressure to be calculated  
n = number of appliances

ROOM VOLUME	
Content m <sup>3</sup>	Correction [dB(A)]
80	0
150	- 2.7
200	- 4.0
250	- 4.9
300	- 5.7
350	- 6.4
400	- 7.0
500	- 8.0
600	- 8.8

Calculation of sound pressure for other room content

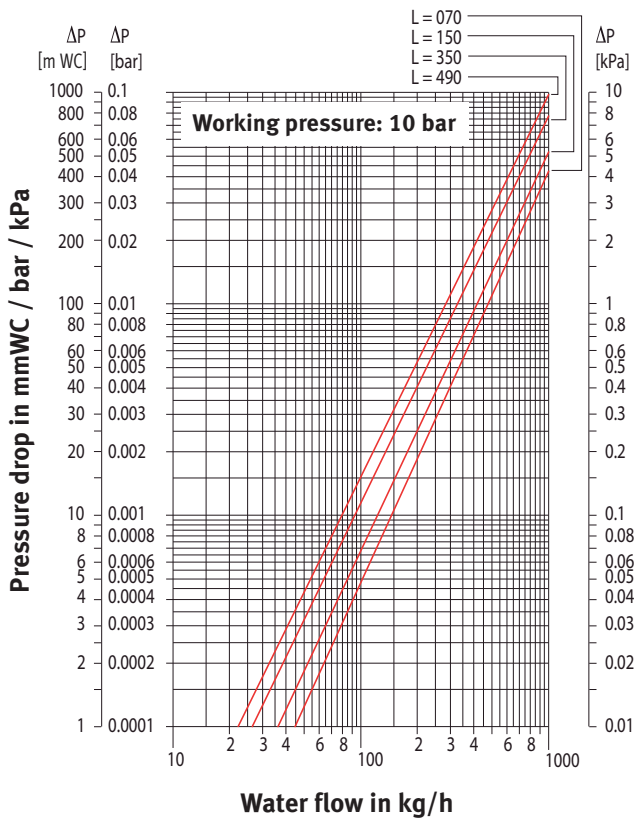
$P_2 = P_1 - 10 \log \frac{V_2}{V_1}$   
P<sub>1</sub> = table of sound pressure  
P<sub>2</sub> = sound pressure to be calculated  
V<sub>1</sub> = size of reference room (80 m<sup>3</sup>)  
V<sub>2</sub> = room size

REVERBERATION TIME	
Reverberation time (c) T2	Correction [dB(A)]
2.5	+ 6.2
2.0	+ 5.2
1.5	+ 4.0
1.0	+ 2.2

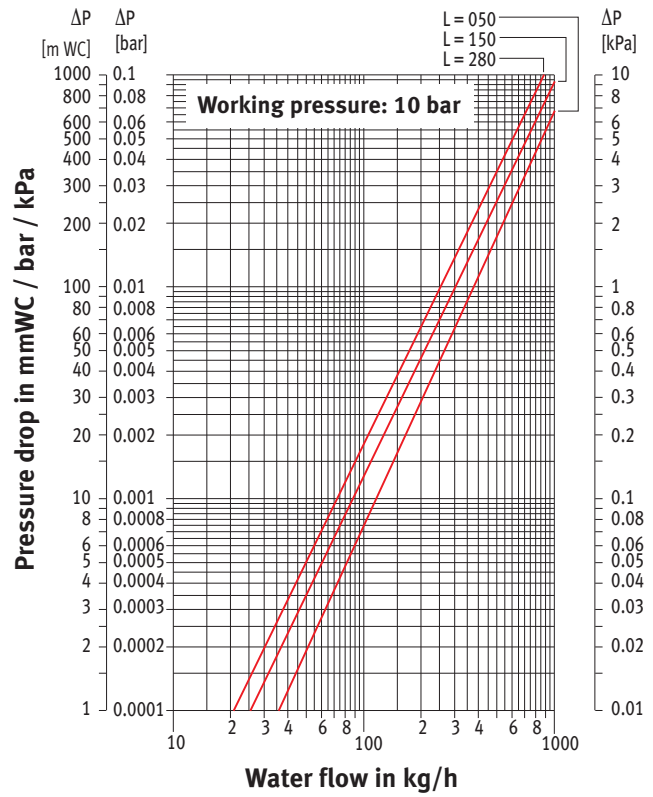
$P_2 = P_1 - 10 \log \frac{T_2}{T_1}$   
P<sub>1</sub> = table of sound pressure  
P<sub>2</sub> = sound pressure to be calculated  
T<sub>1</sub> = reverberation time of room of reference (T<sub>1</sub> = 0.6 s)  
T<sub>2</sub> = reverberation time of room

# LINEA PLUS - PRESSURE DROP

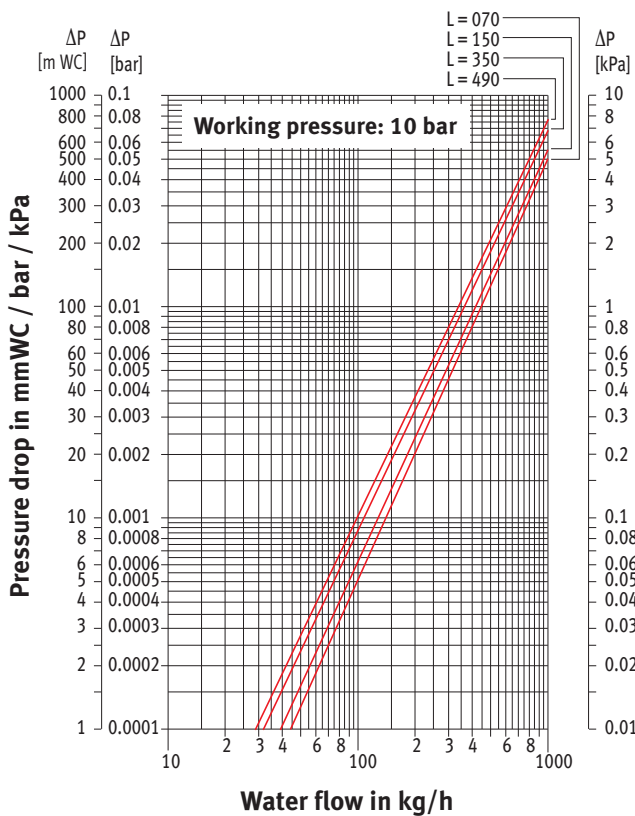
## PRESSURE DROP TYPE 10



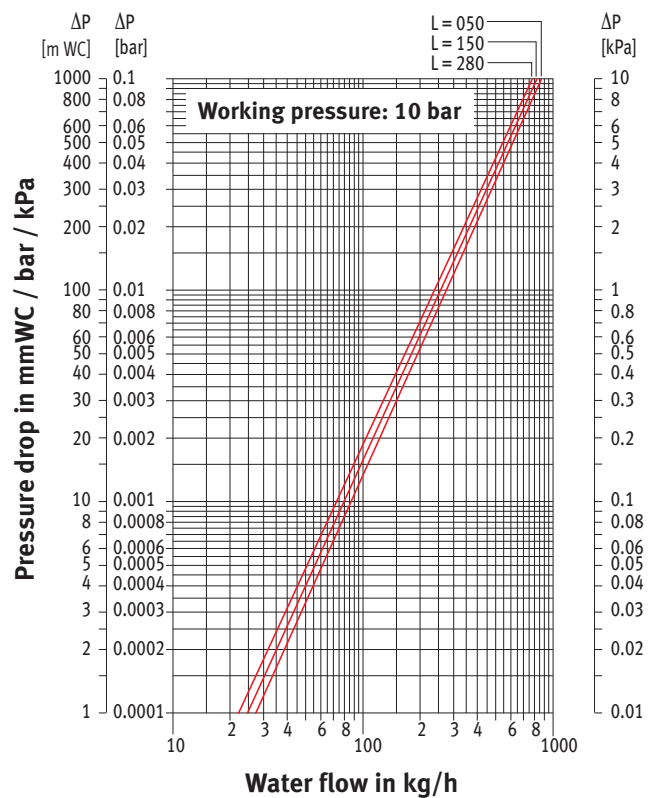
## PRESSURE DROP TYPE 11



## PRESSURE DROP TYPE 15

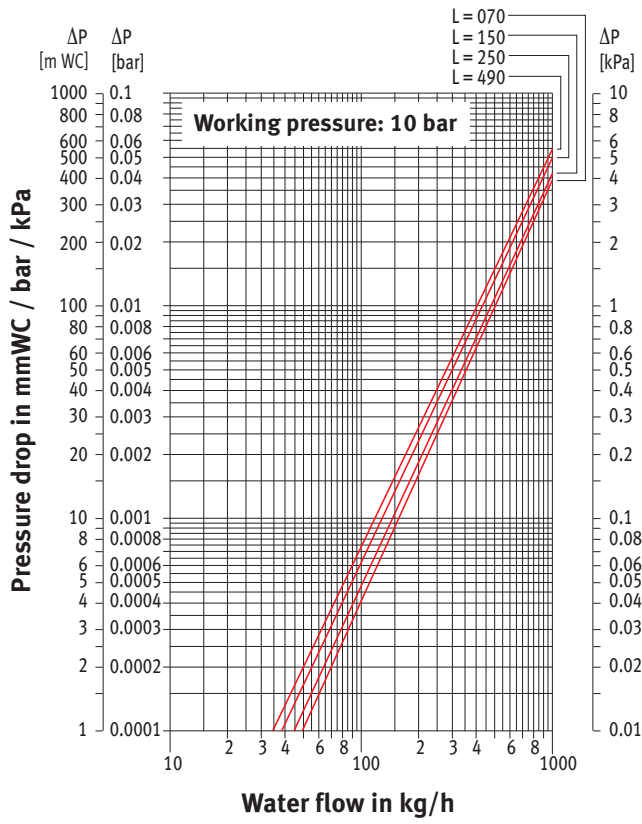


## PRESSURE DROP TYPE 16

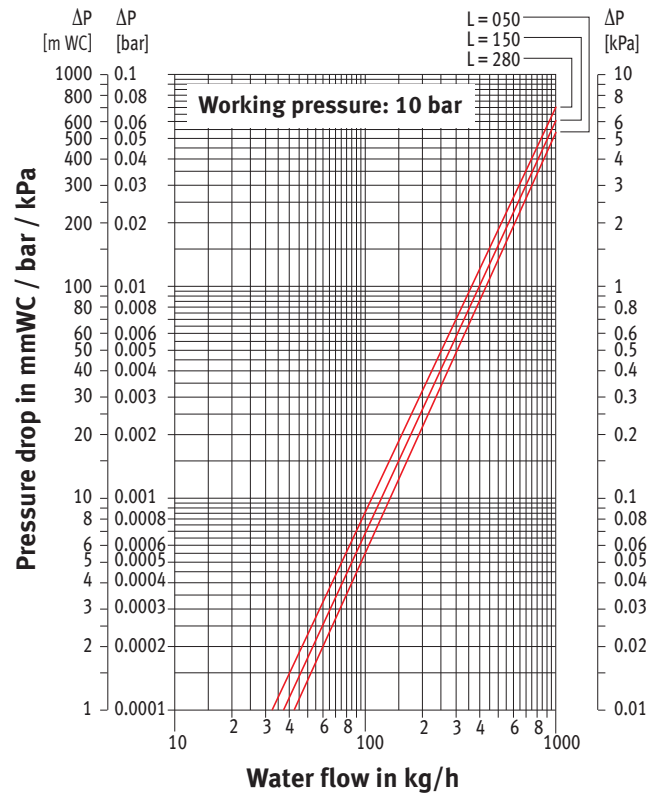


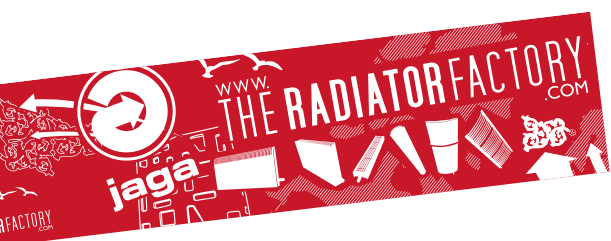
# LINEA PLUS ■ PRESSURE DROP

## PRESSURE DROP TYPE 20



## PRESSURE DROP TYPE 21





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