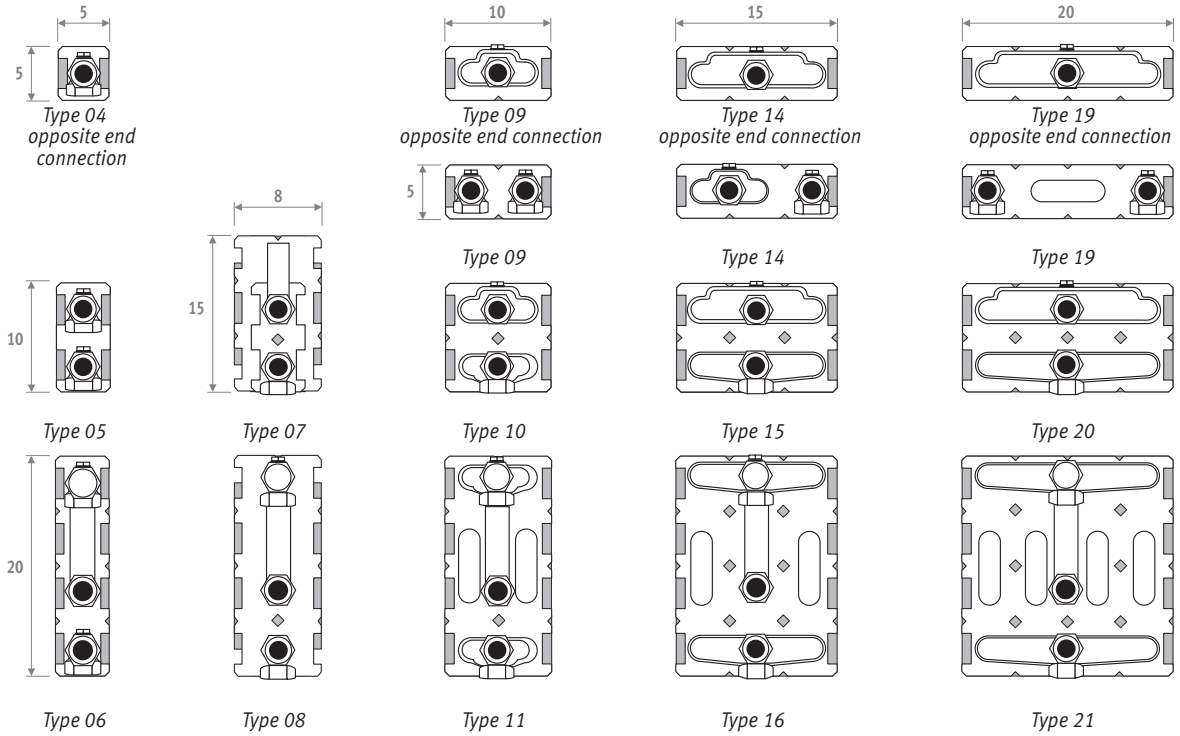
jaga

# TECHNICAL INFORMATION

€ 2016-2017.EX

# TECHNICAL INFORMATION

# **ENERGY SAVERS** ▪ HEAT EXCHANGERS OVERVIEW




| Type | Strada | Linea Plus | Tempo | Maxi | Mini | Knockonwood | Play | Installation into a wall recess | Tempo freestanding | Mini freestanding | Mini freestanding DBE | Knockonwood freestanding | Mini Canal H / W | Mini Canal DBE H / W | Canal Plus Canal Compact |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **04 opposite end connection** | - | - | - | - | - | - | - | - | - | - | - | - | ✓ 09-11/14 | - | - |
| **05** | - | - | - | - | ✓ | - | - | - | - | - | - | - | ✓ 14/14 | - | - |
| **06** | - | - | - | - | ✓ | - | - | - | - | ✓ | - | - | - | - | - |
| **07** | ✓* | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **08** | ✓** | - | - | - | - | ✓ | - | - | - | - | - | - | - | - | - |
| **09** | - | - | - | - | - | - | - | - | - | - | - | - | ✓ 09-11/18-26 | - | - |
| **09 opposite end connection** | - | - | - | - | ✓ | - | - | - | - | ✓ | | - | - | - | - |
| **10** | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | - | - | ✓ 14-19/26 | ✓ 14/26 | ✓ |
| **11** | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | - | - | - | - |
| **14** | - | - | - | - | - | - | - | - | - | - | - | - | ✓ 09-11/34 | - | - |
| **14 opposite end connection** | - | - | - | - | ✓ | - | | - | - | ✓ | - | - | - | - | - |
| **15** | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | - | ✓ | ✓ 14-19/34 | ✓ 14/34 | ✓ |
| **16** | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | - | - | - | - |
| **19** | - | - | - | - | - | - | - | - | - | - | - | - | ✓ 09-11/42 | - | - |
| **19 opposite end connection** | - | - | - | - | ✓ | - | | - | - | ✓ | - | - | - | - | - |
| **20** | ✓ | ✓ | ✓ | ✓ | ✓ | - | ✓ | ✓ | ✓ | ✓ | - | - | ✓ 14-19/42 | ✓ 14/42 | ✓ |
| **21** | ✓ | ✓ | ✓ | ✓ | ✓ | - | ✓ | ✓ | ✓ | ✓ | - | - | - | - | - |

** Strada type 06, height 20* *** Knockonwood and Strada type 06, all other heights*

## 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 ΔT 50 and ΔT 60 are the exact outputs. ΔT 50 output measured in accordance with EN 442 and ΔT 60 output calculated according to EN 442. An average correction factor is given in this table for all other ΔT outputs, applicable for all dimensions.*



€ EX - 09/06/16

# ENERGY SAVERS WITH DBE ▪ CORRECTION FACTORS

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

DBE Dynamic Boost Effect

| 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 ΔT 50 and ΔT 60 are the exact outputs. ΔT 50 output measured in accordance with EN 442 and ΔT 60 output calculated according to EN 442. An average correction factor is given in this table for all other ΔT outputs, applicable for all dimensions.*

# CORRECTION FACTORS ▪ **ENERGY SAVERS WITH DBE**

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

**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 |

$$P_2 = P1 - 10 \log \frac{T_2}{T_1}$$

$P_1$ = table of sound pressure
$P_2$ = sound pressure to be calculated
$T_1$ = reverberation time of room of reference ( $T_1$ = 0.6 s )
$T_2$ = reverberation time of room

**ROOM VOLUME**

| Content m³ | 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

$$P_2 = P1 - 10 \log \frac{V_2}{V_1}$$

$P_1$ = table of sound pressure
$P_2$ = sound pressure to be calculated
$V_1$ = size of reference room (80 m¬≥)
$V_2$ = room size

**SEVERAL APPLIANCES WITH AN EQUAL SOUND LEVEL IN A ROOM**

| Number [dB(A)] | Correction [dB(A)] |
|---|---|
| 2 | + 3.0 |
| 3 | + 4.8 |

$P_2 = P1 + 10 \log n$
$P_1$ = sound level one appliance
$P_2$ = sound pressure to be calculated
n = number of appliances

**NOISE PRESSURE 1 UNIT** dB(A)

| Type | Comfort | Boost |
|---|---|---|
| **DBEU.06** | 27 | 34 |
| **DBEU.10** | 29 | 35 |
| **DBEU.15** | 27 | 31 |

Reverberation time RT60 0.6 s
Reference room $V_1$ 80m³
Reference pressure $P_0$ $2.10^{-5}$Pa

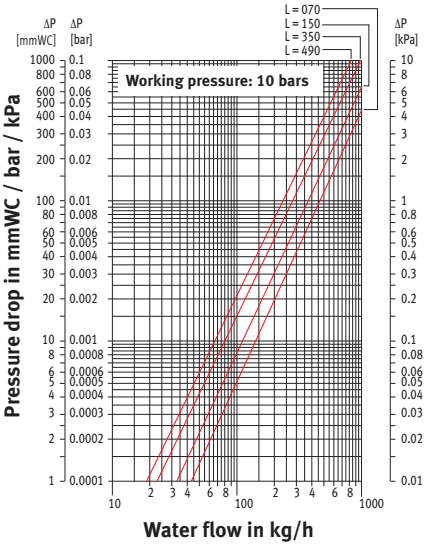
| | **NOISE PRESSURE COMFORT** dB(A) | | | | | | **MAX. MEASURED POWER** (Watts) | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Number of units** | **1** | **2** | **3** | **4** | **5** | **6** | **1** | **2** | **3** | **4** | **5** | **6** |
| **DBEU.06** | 27.0 | 30.0 | 31.8 | 33.0 | 34.0 | 34.8 | 2.7 | 5.4 | 8.1 | 10.8 | 13.5 | 16.2 |
| **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 |



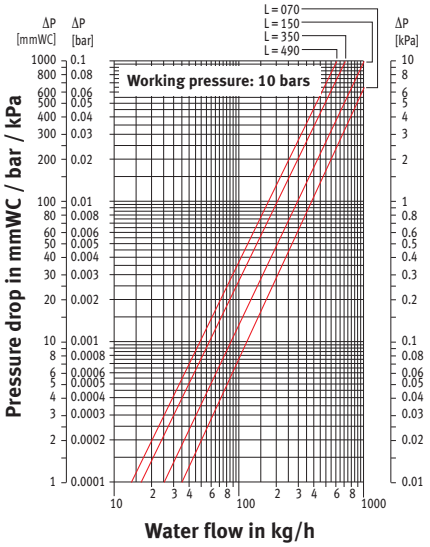
€ EX - 09/06/16

# ENERGY SAVERS · PRESSURE DROP

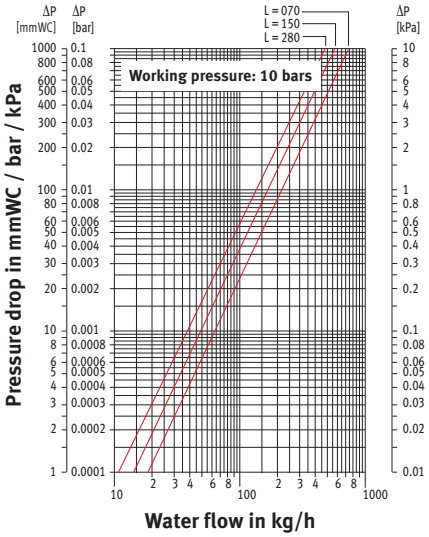
## PRESSURE DROP TYPE 04 OPPOSITE END CONNECTION



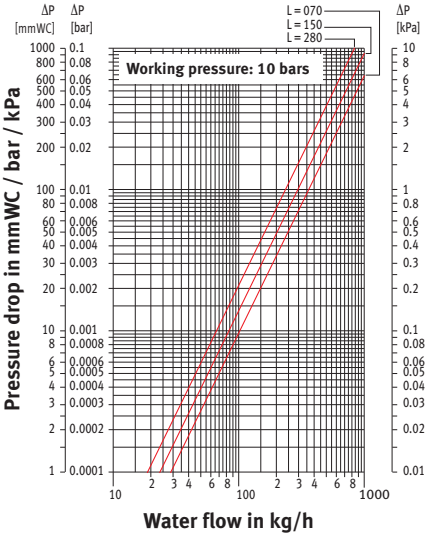

## PRESSURE DROP TYPE 05



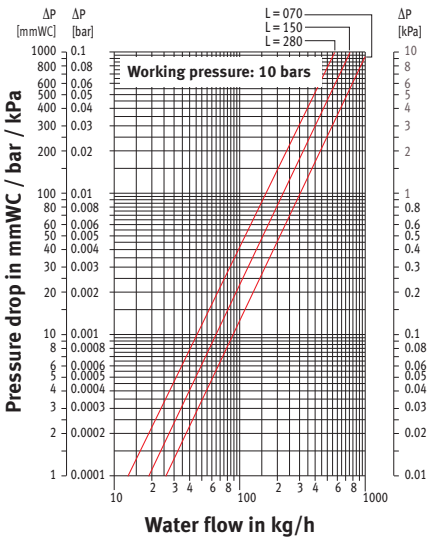

## PRESSURE DROP TYPE 06



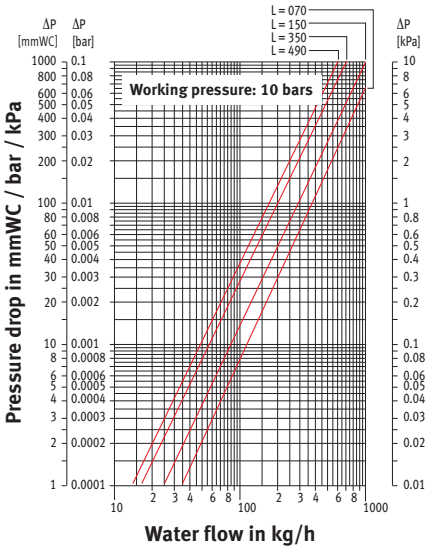

## PRESSURE DROP TYPE 07



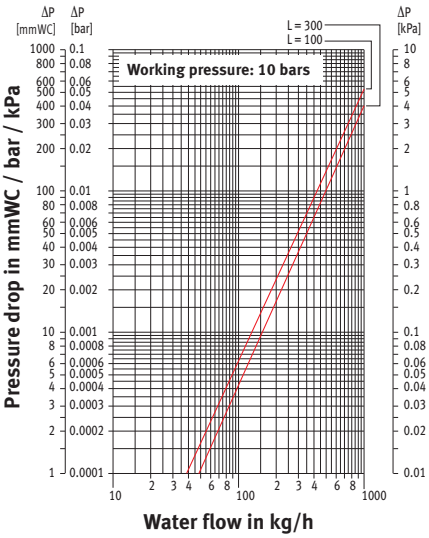

## PRESSURE DROP TYPE 08




## PRESSURE DROP TYPE 09




## PRESSURE DROP TYPE 09 OPPOSITE END CONNECTION

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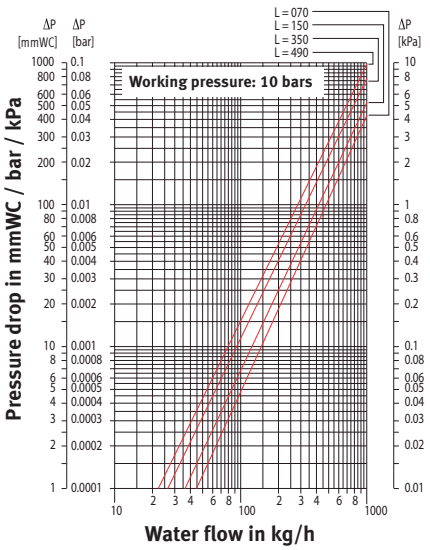
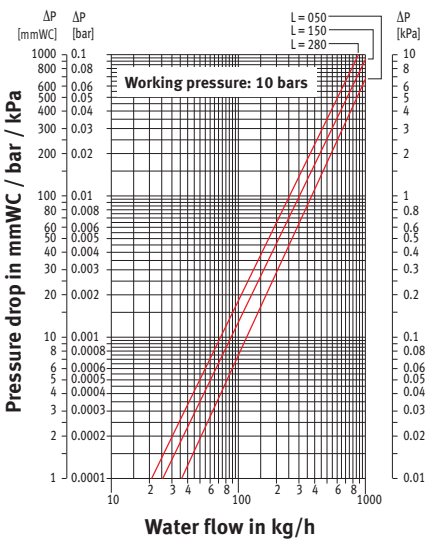
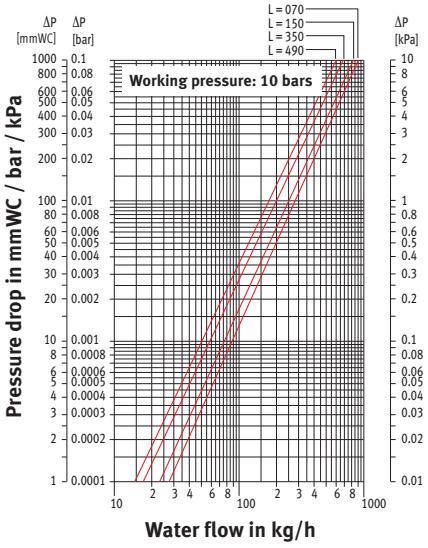


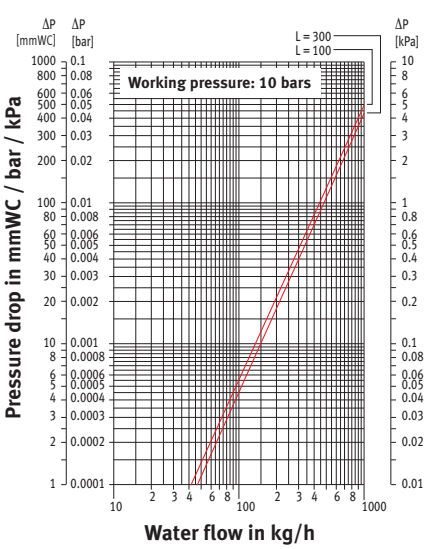

## PRESSURE DROP TYPE 11



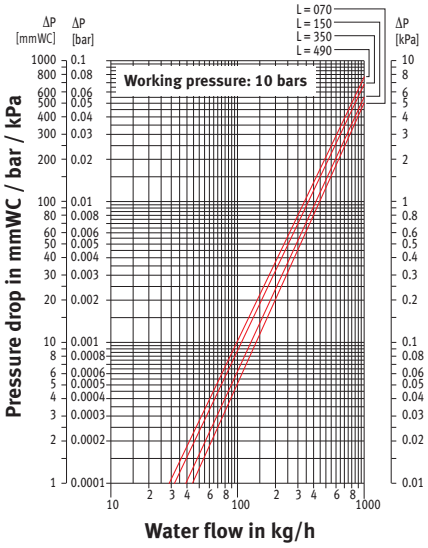
## PRESSURE DROP TYPE 14



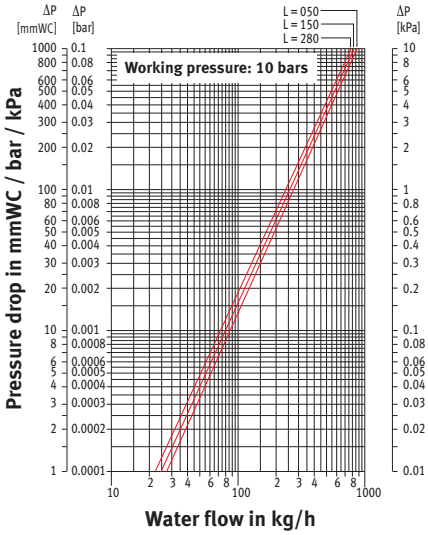

## PRESSURE DROP TYPE 14 OPPOSITE END CONNECTION



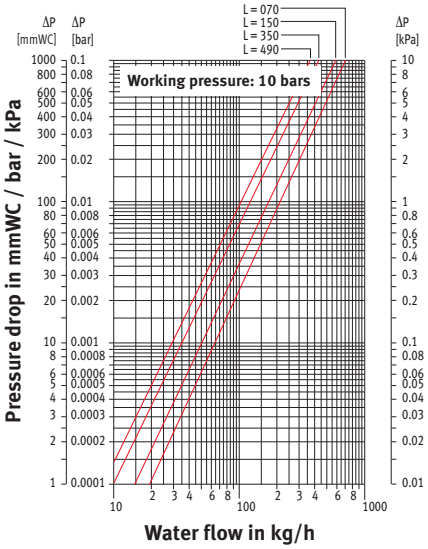

## PRESSURE DROP TYPE 15



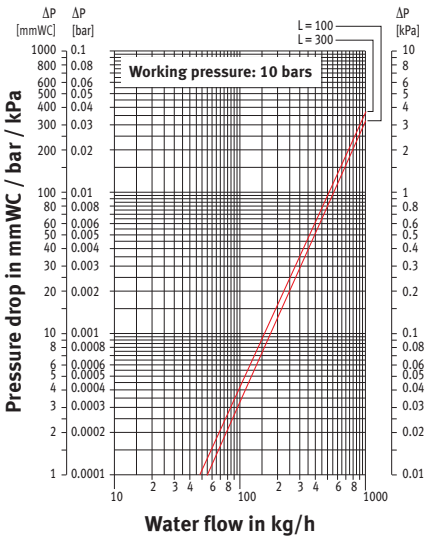

## PRESSURE DROP TYPE 16



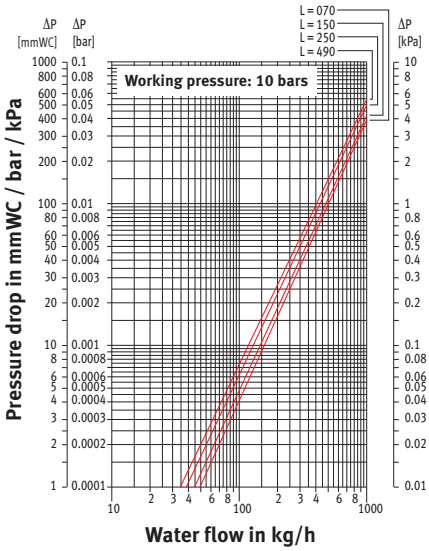

## PRESSURE DROP TYPE 19



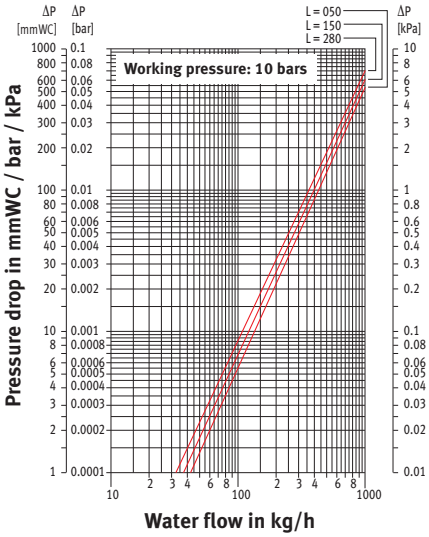

## PRESSURE DROP TYPE 19 OPPOSITE END CONNECTION




## PRESSURE DROP TYPE 20




## PRESSURE DROP TYPE 21



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# ENERGY SAVERS ▪ WEIGHT (IN KG/METRE)

**STRADA WALL MOUNTED MODEL**

| H | T 06 | 10 | 11 | 15 | 16 | 20 | 21 |
|---|---|---|---|---|---|---|---|
| 020 | 6.7 | 7.5 | --- | 9.4 | --- | 11.4 | --- |
| 035 | 9.0 | 9.8 | 11.2 | 11.9 | 14.2 | 14.0 | 16.7 |
| 050 | 11.1 | 12.0 | 13.5 | 14.4 | 16.7 | 16.7 | 19.5 |
| 065 | 13.3 | 14.3 | 15.8 | 16.9 | 19.2 | 19.4 | 22.1 |
| 095 | 17.5 | 18.9 | 20.4 | 21.8 | 24.1 | 24.8 | 27.5 |

**LINEA PLUS WALL MOUNTED MODEL**

| H | T 10 | 11 | 15 | 16 | 20 | 21 |
|---|---|---|---|---|---|---|
| 020 | 5.9 | --- | 7.0 | --- | 8.2 | --- |
| 035 | 8.2 | 9.7 | 9.5 | 12.0 | 11.0 | 14.3 |
| 050 | 10.6 | 12.1 | 12.1 | 14.6 | 13.8 | 17.1 |
| 065 | 13.0 | 14.4 | 14.7 | 17.2 | 16.7 | 19.9 |
| 095 | 15.4 | 19.1 | 17.0 | 22.4 | 18.8 | 25.6 |

**TEMPO WALL MOUNTED MODEL**

| H | T 10 | 11 | 15 | 16 | 20 | 21 |
|---|---|---|---|---|---|---|
| 020 | 5.4 | --- | 6.7 | --- | 8.3 | --- |
| 030 | 6.6 | 8.2 | 8.1 | 10.8 | 9.8 | 13.4 |
| 040 | 7.8 | 9.4 | 9.5 | 12.2 | 11.3 | 14.9 |
| 050 | 9.0 | 10.7 | 10.8 | 13.6 | 12.9 | 16.4 |
| 060 | 10.3 | 11.9 | 12.2 | 14.9 | 14.4 | 17.9 |
| 070 | 11.5 | 13.1 | 13.6 | 16.3 | 15.9 | 19.4 |

**MAXI WALL MOUNTED MODEL WT**

| H | T 10 | 11 | 15 | 16 | 20 | 21 |
|---|---|---|---|---|---|---|
| 044 | 19.0 | 21.2 | 21.3 | 24.4 | 23.5 | 27.3 |
| 059 | 24.3 | 25.8 | 26.9 | 29.4 | 29.6 | 32.5 |
| 074 | 29.6 | 31.2 | 32.5 | 34.9 | 35.3 | 38.2 |

**MAXI WALL MOUNTED MODEL WF**

| H | T 10 | 11 | 15 | 16 | 20 | 21 |
|---|---|---|---|---|---|---|
| 044 | 19.0 | 21.2 | 22.2 | 25.4 | 25.3 | 29.4 |
| 059 | 24.3 | 25.8 | 27.8 | 30.2 | 31.4 | 34.3 |
| 074 | 29.6 | 31.2 | 33.3 | 35.8 | 37.0 | 39.9 |

**MAXI FLOOR MODEL FT**

| H | T 10 | 11 | 15 | 16 | 20 | 21 |
|---|---|---|---|---|---|---|
| 044 | 17.5 | 19.6 | 19.7 | 22.8 | 22.0 | 25.7 |
| 059 | 22.8 | 24.3 | 25.3 | 27.8 | 28.1 | 30.9 |
| 074 | 28.1 | 29.6 | 30.8 | 33.3 | 33.7 | 36.6 |

**MAXI FLOOR MODEL FF**

| H | T 10 | 11 | 15 | 16 | 20 | 21 |
|---|---|---|---|---|---|---|
| 044 | 17.5 | --- | 20.6 | --- | 37.7 | --- |
| 059 | 22.8 | 24.3 | 26.3 | 28.7 | 29.8 | 32.7 |
| 074 | 28.1 | 29.6 | 31.8 | 34.3 | 35.5 | 38.4 |

**KNOCKONWOOD WALL MOUNTED MODEL**

| H | T 06 | 10 | 11 | 15 | 16 |
|---|---|---|---|---|---|
| 030 | 8.3 | 7.8 | 9.9 | 8.9 | 12.2 |
| 055 | 12.3 | 12.0 | 13.6 | 14.1 | 19.7 |
| 080 | 17.4 | 16.9 | 18.6 | 18.6 | 21.1 |

**PLAY WALL MOUNTED MODEL**

| H | T 10 | 11 | 15 | 16 | 20 | 21 |
|---|---|---|---|---|---|---|
| 035 | 14.2 | 15.6 | 16.9 | 19.4 | 19.7 | 22.6 |
| 050 | 16.4 | 17.8 | 19.4 | 21.9 | 22.5 | 25.4 |
| 065 | 15.3 | 16.7 | 18.8 | 21.3 | 22.3 | 25.2 |

**PLAY WALL MOUNTED MODEL WITH DBE**

| H | T 11 | 16 | 21 |
|---|---|---|---|
| 035 | 16.6 | 20.5 | 23.7 |
| 050 | 18.9 | 23.0 | 26.5 |
| 065 | 17.8 | 22.4 | 26.3 |

**INSTALLATION INTO A WALL RECESS**

| H | T 10 | 11 | 15 | 16 | 20 | 21 |
|---|---|---|---|---|---|---|
| 020 | 3.9 | --- | 5.1 | --- | 6.2 | --- |
| 030 | 4.9 | 6.5 | 6.1 | 8.7 | 7.3 | 10.3 |
| 040 | 5.9 | 7.5 | 7.2 | 9.7 | 8.5 | 11.4 |
| 050 | 6.9 | 8.5 | 8.2 | 10.8 | 9.6 | 12.6 |

**TEMPO FREESTANDING MODEL**

| H | T 10 | 11 | 15 | 16 | 20 | 21 |
|---|---|---|---|---|---|---|
| 020 | 8.2 | --- | 9.7 | --- | 11.2 | --- |
| 030 | 10.2 | 11.9 | 11.8 | 14.7 | 13.5 | 17.1 |
| 040 | 12.2 | 13.9 | 14.0 | 16.9 | 15.7 | 19.4 |
| 050 | 14.2 | 15.9 | 16.1 | 19.0 | 18.0 | 21.7 |

**KNOCKONWOOD FREESTANDING DBE**

| H | L 110 | 130 | 170 | 210 |
|---|---|---|---|---|
| 021 | 18.0 | 21.0 | 24.0 | 27.0 |

**MINI WALL MOUNTED & FREESTANDING MODEL**

| H | T 05 | 06 | 09 | 10 | 11 | 14 | 15 | 16 | 19 | 20 | 21 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 008 | --- | --- | 5.2 | --- | --- | 6.1 | --- | --- | 7.0 | --- | --- |
| 013 | 5.6 | --- | --- | 7.1 | --- | --- | 8.43 | --- | --- | 9.7 | --- |
| 023 | --- | 8.5 | --- | --- | 10.2 | --- | | 12.8 | --- | --- | 16.1 |
| 028 | --- | 10.8 | --- | --- | 13.6 | --- | 16.8 | --- | --- | --- | 19.5 |

**MINI FREESTANDING DBE**

| H | T 11 | 16 |
|---|---|---|
| 028 | 21.0 | 25.0 |

**MINI CANAL**

| H | B 14 | 18 | 26 | 34 | 42 |
|---|---|---|---|---|---|
| 009 | 4.60 | 5.01 | 5.80 | 7.05 | 8.29 |
| 011 | 5.00 | 5.42 | 6.24 | 7.52 | 8.80 |
| 014 | 5.70 | --- | 7.77 | 9.51 | 11.28 |
| 019 | --- | --- | 9.25 | 11.06 | 12.89 |

**MINI CANAL DBE**

| H | B 26 | 34 | 42 |
|---|---|---|---|
| 014 | 12.65 | 15.30 | 18.05 |

Average weight in kg/metre for Mini duct, including frame and heat exchanger.

**GRILLES MINI CANAL & MINI CANAL DBE**

| Finish | Width 12.8 / Width duct 14 | 16.8 / 18 | 24.8 / 26 | 32.8 / 34 | 40.8 / 42 |
|---|---|---|---|---|---|
| - Roll-up Designo merbau/merbau varnished | 2.18 | 3.00 | 3.52 | 3.98 | 4.67 |
| - Roll-up Designo oak/oak varnished | 1.59 | 2.03 | 2.69 | 3.34 | 3.90 |
| - Roll-up Designo beech/beech varnished | 1.50 | 1.90 | 2.50 | 3.10 | 3.60 |
| - Roll-up merbau/merbau varnished | 2.15 | 2.70 | 3.03 | 3.35 | 4.05 |
| - Roll-up oak/oak varnished | 1.48 | 1.71 | 2.15 | 2.61 | 3.12 |
| - Roll-up beech/beech varnished | 1.40 | 1.60 | 2.00 | 2.42 | 2.88 |
| - Roll-up alu natural/black/brown/brass | 1.21 | 1.38 | 2.07 | 2.76 | 3.45 |
| - Roll-up grille natural Accordion | 2.80 | 3.45 | 4.85 | 5.50 | 7.55 |
| - Roll-up stainless steel | 2.18 | 2.86 | 4.22 | 5.58 | 6.94 |
| - Rigid Designo alu natural/black/brown/brass/lacquered | 1.60 | 2.10 | 3.20 | 4.10 | 5.00 |
| - Rigid alu natural/black/brown/brass/lacquered | 1.55 | 2.20 | 2.50 | 3.15 | 3.75 |
| - Rigid Pebbles | 2.20 | 2.70 | 3.65 | 4.60 | 5.60 |

**CANAL COMPACT**

| R 1.5 | | | R 4.0 | | |
|---|---|---|---|---|---|
| B | H | Kg/m | B | H | Kg/m |
| 36 | 36 | 16.50 | 47 | 52 | 20.50 |

**CANAL COMPACT DBE**

| R 1.5 | | | R 4.0 | | |
|---|---|---|---|---|---|
| B | H | Kg/m | B | H | Kg/m |
| 36 | 36 | 18.00 | 47 | 52 | 22.00 |

Average weight in kg/metre for the complete unit, including frame and grille.

**CANAL PLUS**

| R 2.5 | | | R 3.0 | | | R 4.0 | | |
|---|---|---|---|---|---|---|---|---|
| B | H | Kg/m | B | H | Kg/m | B | H | Kg/m |
| 34 | 68 | 22.54 | 36 | 69 | 22.58 | 42 | 72 | 23.63 |
| 38 | 68 | 25.61 | 40 | 69 | 25.80 | 46 | 72 | 25.97 |
| 49 | 68 | 30.53 | 51 | 69 | 30.44 | 57 | 72 | 31.44 |

Average weight in kg/metre for the complete unit, including frame and grille.

Weight and water content without packaging or options



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# WATER CONTENT IN LITRES ▪ **ENERGY SAVERS**

**WATER CONTENT HEAT EXCHANGER**
(IN LITRES/METRE)

| Type | L/metre |
|---|---|
| **04 D** | 0.16 |
| **05** | 0.32 |
| **06** | 0.64 |
| **07** | 0.51 |
| **08** | 0.63 |
| **09** | 0.32 |
| **09 D** | 0.31 |
| **10** | 0.65 |
| **11** | 1.33 |
| **14** | 0.48 |
| **14 D** | 0.47 |
| **15** | 0.98 |
| **16** | 1.98 |
| **19** | 0.63 |
| **19 D** | 0.66 |
| **20** | 1.32 |
| **21** | 2.66 |

07 = Strada type 06, height 20
08 = Knockonwood and Strada type 06, all other heights
D = Opposite end connection

**MINI CANAL WATER CONTENT**
(IN LITRES/METRE)

| H | B 14 | 18 | 26 | 34 | 42 |
|---|---|---|---|---|---|
| **009** | 0.16 | 0.32 | 0.32 | 0.48 | 0.66 |
| **011** | 0.16 | 0.32 | 0.32 | 0.48 | 0.66 |
| **014** | 0.32 | --- | 0.65 | 0.98 | 1.32 |
| **019** | --- | --- | 0.65 | 0.98 | 1.32 |

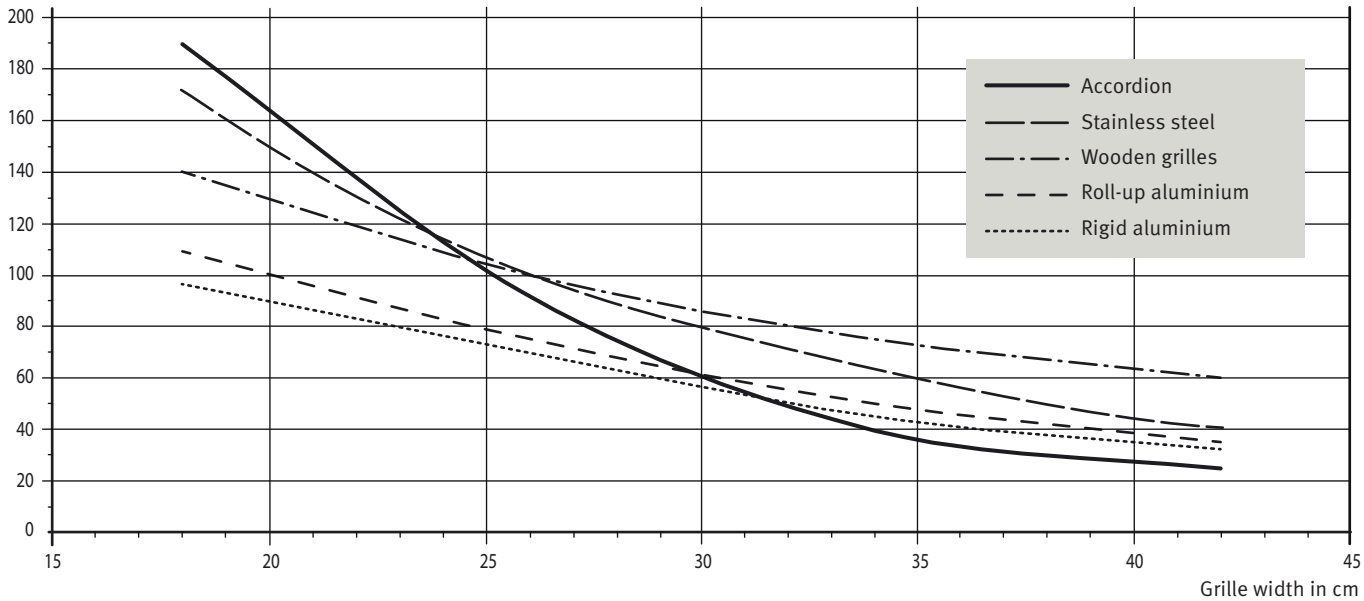
**MINI CANAL DBE WATER CONTENT**
IN LITRES

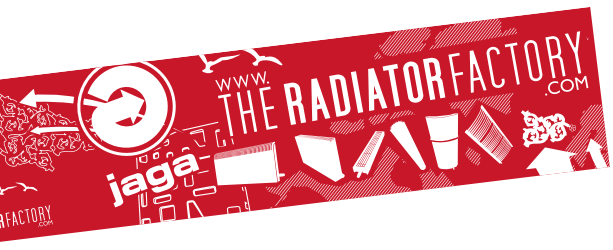
| L | B 26 | 34 | 42 |
|---|---|---|---|
| **110** | 0.63 | 0.95 | 1.27 |
| **130** | 0.76 | 1.14 | 1.52 |
| **150** | 0.89 | 1.34 | 1.78 |
| **170** | 1.02 | 1.53 | 2.04 |
| **190** | 1.15 | 1.72 | 2.29 |
| **210** | 1.28 | 1.92 | 2.56 |
| **230** | 1.4 | 2.11 | 2.81 |
| **250** | 1.53 | 2.3 | 3.06 |
| **270** | 1.66 | 2.5 | 3.33 |
| **290** | 1.79 | 2.69 | 3.58 |
| **310** | 1.92 | 2.88 | 3.84 |

# MAXIMUM GRILLE LOADINGS

- **Roll-up wood and aluminium grille: concentrated load in kg in the centre of the grille up to 2 mm deflection.**
- **Rigid grilles: concentrated load in the centre of the transverse section up to 2 mm deflection.**
- **Pebbles:** max. 100 kg per tile

Concentrated load in kg



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