

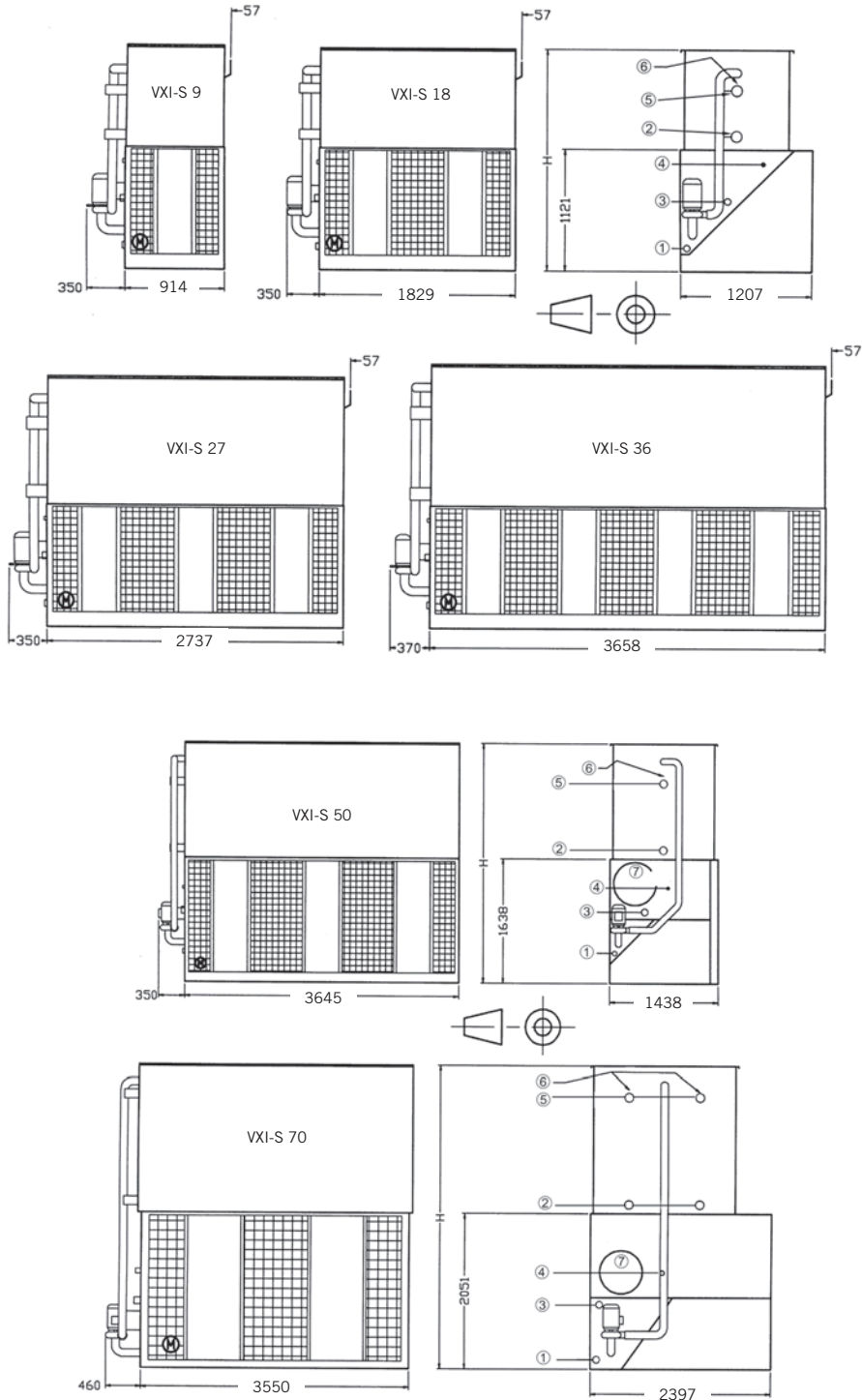


TECHNICAL DATA



VXI-S Closed Circuit Cooling Towers

Technical Data



1. Drain ND50 - Both ends, 2. Outlet , 3. Overflow ND50, 4. Make-up, 5. Inlet, 6. Vent, 7. Access

Technical Data

| Model Number VXI-S | Shipping Weight (kg) | Operating Weight (kg) | Heaviest Section (kg) | Air Flow (m ³ /s) | Fan Motor (kW) | Spray Water Flow (l/s) | Pump Motor (kW) | Coil Volume (L) | H (mm) |
|-----------------------|----------------------|-----------------------|-----------------------|------------------------------|----------------|------------------------|-----------------|-----------------|--------|
| VXI-S 9-1 | 660 | 780 | 660* | 2.3 | 1.5 | 2.2 | 0.37 | 79 | 2230 |
| VXI-S 9-2 | 730 | 870 | 450 | 2.2 | 1.5 | 2.2 | 0.37 | 98 | 2445 |
| VXI-S 9-3 | 830 | 980 | 540 | 2.5 | 2.2 | 2.2 | 0.37 | 117 | 2660 |
| VXI-S 18-0 | 920 | 1120 | 920* | 4.6 | 4.0 | 4.7 | 0.75 | 98 | 2015 |
| VXI-S 18-1 | 1030 | 1270 | 1030* | 5.0 | 4.0 | 4.7 | 0.75 | 148 | 2230 |
| VXI-S 18-2 | 1160 | 1440 | 740 | 4.8 | 4.0 | 4.7 | 0.75 | 189 | 2445 |
| VXI-S 18-3 | 1330 | 1650 | 880 | 5.5 | 5.5 | 4.7 | 0.75 | 231 | 2660 |
| VXI-S 27-1 | 1410 | 1850 | 1410 | 7.6 | 5.5 | 7.3 | 0.75 | 208 | 2290 |
| VXI-S 27-2 | 1620 | 2110 | 1080 | 6.8 | 5.5 | 7.3 | 0.75 | 269 | 2530 |
| VXI-S 27-3 | 1820 | 2390 | 1290 | 7.1 | 7.5 | 7.3 | 0.75 | 333 | 2760 |
| VXI-S 36-2 | 2030 | 2720 | 1390 | 10.4 | 7.5 | 9.5 | 1.1 | 360 | 2530 |
| VXI-S 36-3 | 2330 | 3100 | 1650 | 10.9 | 11.0 | 9.5 | 1.1 | 443 | 2760 |
| VXI-S 50-2 | 3420 | 4490 | 2230 | 14.6 | 11.0 | 13.9 | 2.2 | 515 | 3045 |
| VXI-S 50-3 | 3700 | 5030 | 2640 | 15.7 | 11.0 | 13.9 | 2.2 | 628 | 3280 |
| VXI-S 50-4 | 4000 | 5570 | 2985 | 16.9 | 15.0 | 13.9 | 2.2 | 765 | 3515 |
| VXI-S 70-2 | 4620 | 6860 | 2980 | 20.8 | 15.0 | 19.2 | 2.2 | 715 | 3460 |
| VXI-S 70-3 | 5285 | 7705 | 3540 | 22.9 | 18.5 | 19.2 | 2.2 | 886 | 3695 |
| VXI-S 70-4 | 5790 | 8550 | 4080 | 22.2 | 18.5 | 19.2 | 2.2 | 1060 | 3930 |

* Indicates unit ships in one piece.



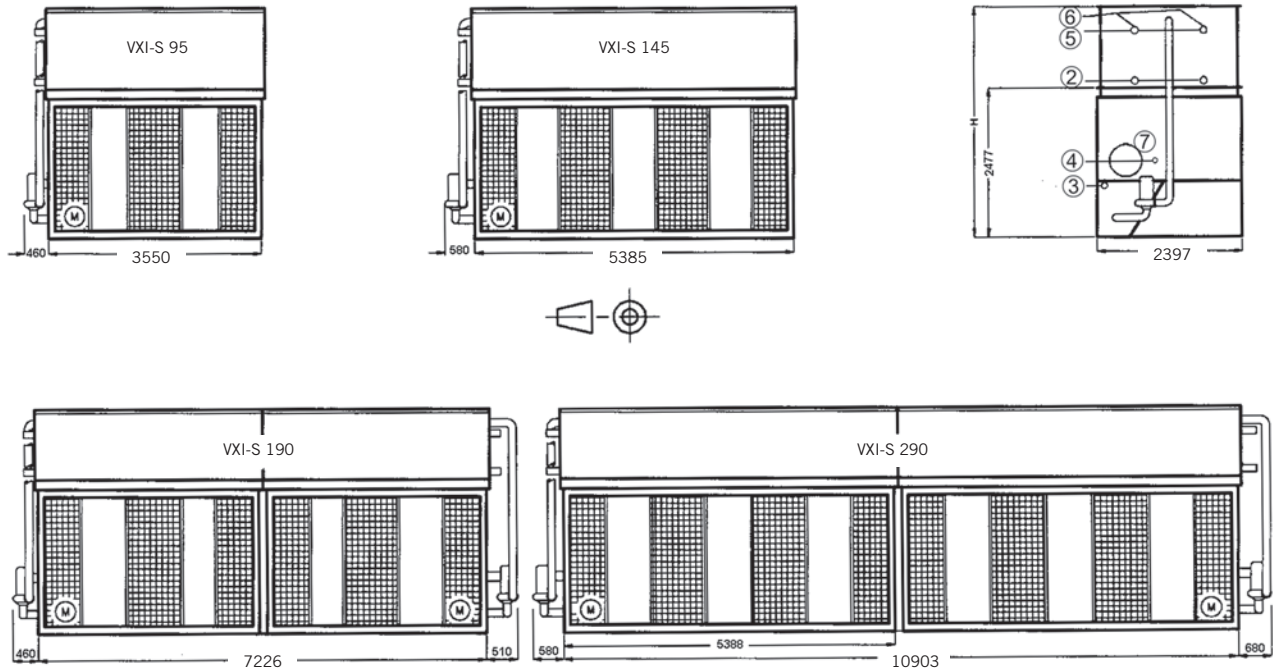
NOTES

Models VXI-S 9 to VXI-S 70:

- Pipe sizes are nominal diameters. All connections through 150mm are BSP male thread except for 15mm vent which is FPT. Connections larger than 150mm are bevelled for welding. Coil connections are capped and seal welded.
- Coil connections on models VXI-S 9-1 to VXI-S 9-3 are 80mm diameter, on all other models coil connection diameter is 100mm.
- On VXI-S 9 to VXI-S 36 access doors located on the opposite side to air inlet. Ensure sufficient space for entry when installing.
- Dimensional drawings show standard (right hand) arrangements. Left hand arrangement can be furnished by special order.
- Coil, overflow, make-up and spray water connections are always located on the same end of the unit.
- Coil connection locations are approximate. Dimensions should not be used for prefabrication of connecting piping.
- Coil section is normally the heaviest section.
- For external static pressures up to 125 Pa use next larger motor size.
- When flow rate on model VXI-S 50 exceeds 30 l/s the quality of coil connections will double.**
- VXI-S fluid coolers can be installed indoors with ductwork attached to the discharge only. If inlet ductwork is required, units must be equipped with solid bottom panels. Consult local BAC representative for details.
- Models VXI-S 9 through to VXI-S 70 have one coil section and one fan motor which can be switched on and off. Multiple speed motors are available for additional steps of capacity control. Consult local BAC representative for details.
- For dry operation, standard motors must be increased one size to avoid motor overloading.

Do not use for construction. Refer to factory certified dimensions. In the interest of product improvement, specifications and dimensions are subject to change without notice.

Technical Data

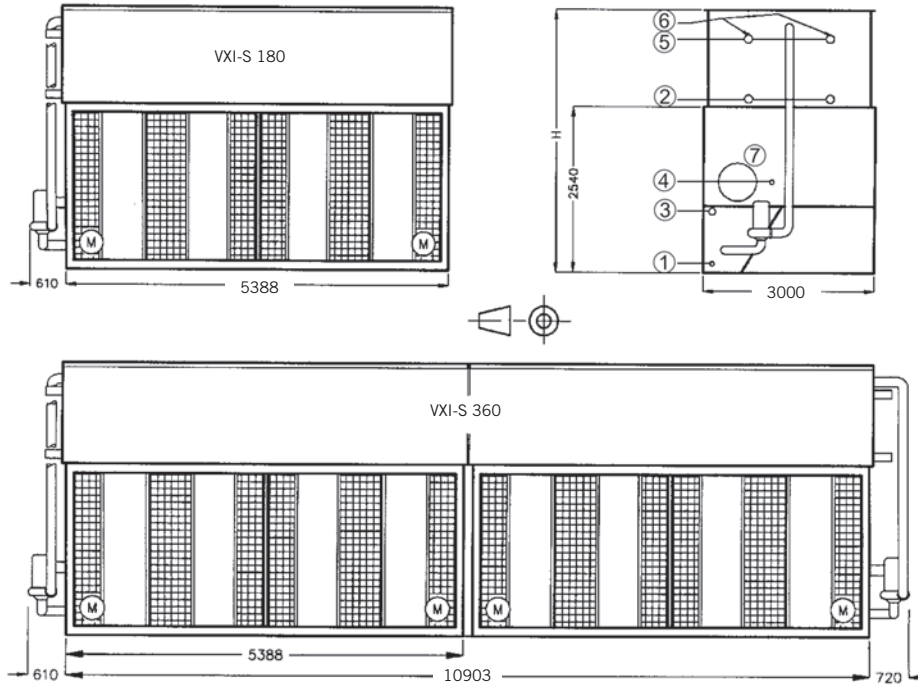


1. Drain ND50 - Both ends, 2. Outlet, 3. Overflow ND50, 4. Make-up, 5. Inlet, 6. Vent, 7. Access

| Model Number VXI-S | Shipping Weight (kg) | Operating Weight (kg) | Heaviest Section (kg) | Air Flow (m ³ /s) | Fan Motor (kW) | Spray Water Flow (l/s) | Pump Motor (kW) | Coil Volume (L) | H (mm) |
|-----------------------|----------------------|-----------------------|-----------------------|------------------------------|----------------|------------------------|-----------------|-----------------|--------|
| VXI-S 95-2 | 4990 | 7740 | 3200 | 27.6 | 30.0 | 25.2 | 3.0 | 896 | 3885 |
| VXI-S 95-3 | 5630 | 8630 | 3850 | 26.7 | 30.0 | 25.2 | 3.0 | 1116 | 4120 |
| VXI-S 95-4 | 6180 | 9520 | 4470 | 26.2 | 30.0 | 25.2 | 3.0 | 1334 | 4355 |
| VXI-S 145-1 | 6300 | 10100 | 3780 | 39.9 | 37.0 | 38.5 | 5.5 | 1012 | 3650 |
| VXI-S 145-2 | 7280 | 11460 | 4715 | 38.6 | 37.0 | 38.5 | 5.5 | 1342 | 3885 |
| VXI-S 145-3 | 8270 | 12810 | 5710 | 37.5 | 37.0 | 38.5 | 5.5 | 1666 | 4120 |
| VXI-S 145-4 | 9260 | 14160 | 6690 | 36.6 | 37.0 | 38.5 | 5.5 | 2002 | 4355 |
| VXI-S 190-2 | 9820 | 15400 | 3390* | 55.4 | (2) 30.0 | 50.4 | (2) 3.0 | 1792 | 3885 |
| VXI-S 190-3 | 11100 | 17160 | 3850 | 53.4 | (2) 30.0 | 50.4 | (2) 3.0 | 2232 | 4120 |
| VXI-S 190-4 | 12305 | 18920 | 4470 | 52.5 | (2) 30.0 | 50.4 | (2) 3.0 | 2668 | 4355 |
| VXI-S 290-1 | 12680 | 20350 | 5120* | 79.5 | (2) 37.0 | 77.0 | (2) 5.5 | 2024 | 3650 |
| VXI-S 290-2 | 14570 | 22980 | 5120* | 77.8 | (2) 37.0 | 77.0 | (2) 5.5 | 2684 | 3885 |
| VXI-S 290-3 | 16550 | 25700 | 5710 | 75.0 | (2) 37.0 | 77.0 | (2) 5.5 | 3332 | 4120 |
| VXI-S 290-4 | 18505 | 28420 | 6690 | 73.1 | (2) 37.0 | 77.0 | (2) 5.5 | 4004 | 4355 |

* Indicates pan section is heaviest section.

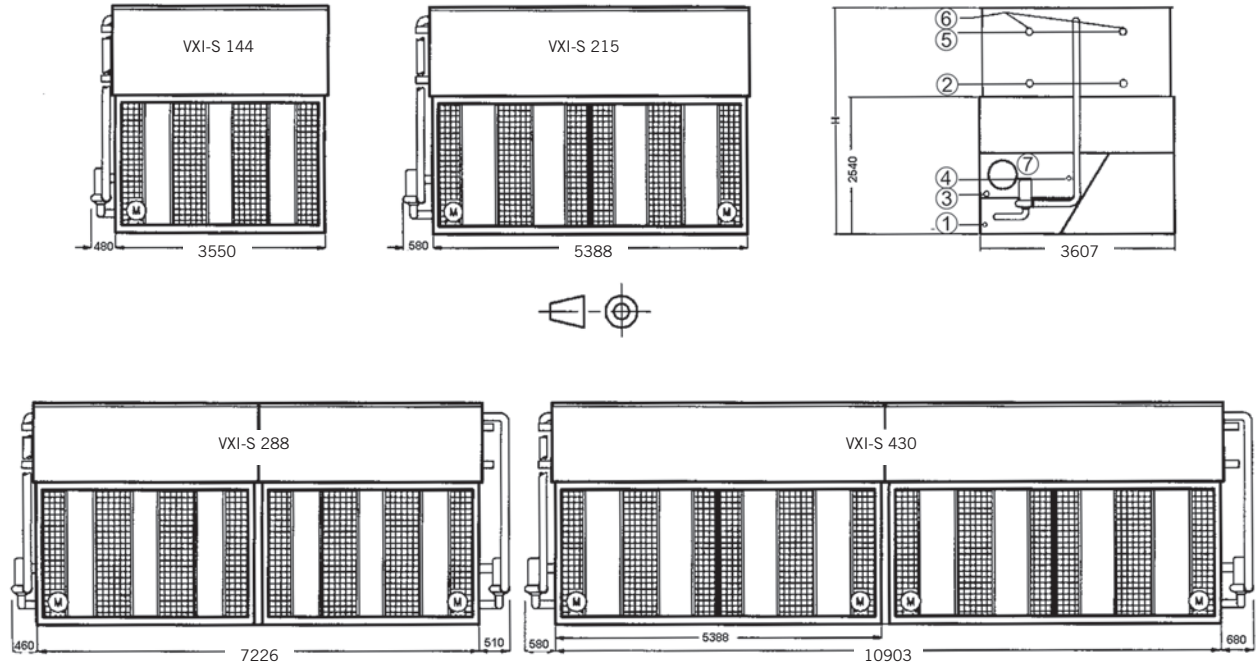
Technical Data



1. Drain ND50 - Both ends, 2. Outlet , 3. Overflow ND50, 4. Make-up, 5. Inlet, 6. Vent, 7. Access

| Model Number VXI-S | Shipping Weight (kg) | Operating Weight (kg) | Heaviest Section (kg) | Air Flow (m ³ /s) | Fan Motor (kW) | Spray Water Flow (l/s) | Pump Motor (kW) | Coil Volume (L) | H (mm) |
|-----------------------|----------------------|-----------------------|-----------------------|------------------------------|----------------|------------------------|-----------------|-----------------|--------|
| VXI-S 180-2 | 10100 | 14080 | 6920 | 51.4 | (2) 18.5 | 46.7 | 5.5 | 1698 | 3945 |
| VXI-S 180-3 | 11350 | 15740 | 8160 | 50.0 | (2) 18.5 | 46.7 | 5.5 | 2106 | 4180 |
| VXI-S 180-4 | 12680 | 17400 | 9180 | 52.0 | (2) 22.0 | 46.7 | 5.5 | 2532 | 4413 |
| VXI-S 360-2 | 20160 | 28060 | 6920 | 102.9 | (4) 18.5 | 93.4 | (2) 5.5 | 3396 | 3945 |
| VXI-S 360-3 | 22680 | 31390 | 8160 | 100.1 | (4) 18.5 | 93.4 | (2) 5.5 | 4212 | 4180 |
| VXI-S 360-4 | 25320 | 34720 | 9310 | 104.0 | (4) 22.0 | 93.4 | (2) 5.5 | 5064 | 4413 |

Technical Data



1. Drain ND50 - Both ends, 2. Outlet , 3. Overflow ND50, 4. Make-up, 5. Inlet, 6. Vent, 7. Access

| Model Number VXI-S | Shipping Weight (kg) | Operating Weight (kg) | Heaviest Section (kg) | Air Flow (m³/s) | Fan Motor (kW) | Spray Water Flow (l/s) | Pump Motor (kW) | Coil Volume (L) | H (mm) |
|-----------------------|----------------------|-----------------------|-----------------------|-----------------|----------------|------------------------|-----------------|-----------------|--------|
| VXI-S 144-2 | 7270 | 12070 | 4680 | 38.6 | 30.0 | 39.1 | 5.5 | 1370 | 3945 |
| VXI-S 144-3 | 8210 | 13390 | 5620 | 40.2 | 37.0 | 39.1 | 5.5 | 1706 | 4180 |
| VXI-S 144-4 | 9870 | 14710 | 6550 | 39.4 | 37.0 | 39.1 | 5.5 | 2040 | 4413 |
| VXI-S 215-1 | 6130 | 15830 | 5510 | 59.4 | (2) 22.0 | 56.8 | 7.5 | 1548 | 3710 |
| VXI-S 215-2 | 10460 | 17730 | 6900 | 57.9 | (2) 22.0 | 56.8 | 7.5 | 2047 | 3945 |
| VXI-S 215-3 | 11900 | 19730 | 8310 | 62.3 | (2) 30.0 | 56.8 | 7.5 | 2548 | 4180 |
| VXI-S 215-4 | 13435 | 21690 | 9710 | 60.4 | (2) 30.0 | 56.8 | 7.5 | 3060 | 4413 |
| VXI-S 288-2 | 14520 | 24230 | 5280* | 77.3 | (2) 30.0 | 78.2 | (2) 5.5 | 2740 | 3945 |
| VXI-S 288-3 | 16510 | 27330 | 5620 | 80.0 | (2) 37.0 | 78.2 | (2) 5.5 | 3412 | 4180 |
| VXI-S 288-4 | 18280 | 30420 | 6550 | 78.8 | (2) 37.0 | 78.2 | (2) 5.5 | 4080 | 4413 |
| VXI-S 430-1 | 18230 | 31750 | 7210* | 119.2 | (4) 22.0 | 113.6 | (2) 7.5 | 3096 | 3710 |
| VXI-S 430-2 | 20890 | 35550 | 7210* | 115.9 | (4) 22.0 | 113.6 | (2) 7.5 | 4094 | 3945 |
| VXI-S 430-3 | 23770 | 39550 | 8310 | 124.6 | (4) 30.0 | 113.6 | (2) 7.5 | 5096 | 4180 |
| VXI-S 430-4 | 26845 | 43560 | 9710 | 120.7 | (4) 30.0 | 113.6 | (2) 7.5 | 6120 | 4413 |

* Indicates pan section is heaviest section.



NOTES

Models VXI-S 95 to VXI-S 430:

1. Pipe sizes are nominal diameters. All connections through 150mm are BSP male thread except for 15mm vent which is FPT. Connections larger than 150mm are bevelled for welding. Coil connections are capped and seal welded.
2. Coil connections on all models are 100mm diameter.
3. Coil connection locations are approximate. Dimensions should not be used for prefabrication of connecting piping.
4. Coil section is normally the heaviest section.
5. For external static pressures up to 125 Pa use next larger motor size.
6. Models VXI-S 95, 145, 180 and 215 are single coil section units. For these models coil, overflow, make-up and spray water connections are always located on the same end of the unit. Models can be supplied as standard in right hand arrangement as shown. Left hand arrangement can be supplied on special order. Fan cycling of these models result in only on-off operation.
7. Models VXI-S 190, 290, 288, 360 and 430 are double coil section units. Coil, overflow and spray water connections are provided on both ends. Make-up connection is provided on one end only. Fans of each section can be cycled to get a 50% capacity control.
8. **When the flowrate on models VXI-S 144, 180, 215 exceeds 60 l/s and on models VXI-S 288, 360 and 430 exceeds 120 l/s, the quantity of coil connections will double.**

Do not use for construction. Refer to factory certified dimensions. In the interest of product improvement, specifications and dimensions are subject to change without notice.

Structural Support

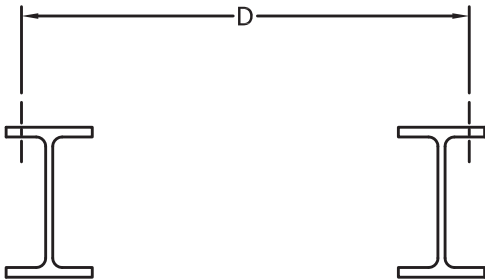
| Model Number VXI-S | D (mm) | Max Deflection (mm) | Model Number VXI-S | D (mm) | Max Deflection (mm) |
|-----------------------|-----------|---------------------------|-----------------------|-----------|---------------------------|
| 9 | 1153 | 2.4 | 180 | 2934 | 13 |
| 18 | 1153 | 5 | 360 | 2934 | 13 |
| 27 | 1153 | 8 | 144 | 3537 | 13 |
| 36 | 1153 | 10 | 215 | 3537 | 13 |
| 50 | 1378 | 10 | 288 | 3537 | 13 |
| 70 | 2327 | 10 | 430 | 3537 | 13 |
| 95 | 2327 | 10 | | | |
| 145 | 2327 | 13 | | | |
| 190 | 2327 | 13 | | | |
| 290 | 2327 | 13 | | | |

D: Centre line distance between bolt holes of unit.

D: Distance to a third support beam which is required with the optional sound attenuator package: 905mm.

VIBRATION ISOLATORS

If vibration isolators are used, a rail or channel must be provided between the unit and the isolators to provide stiff and continuous unit support.



BEAM SIZE AND LENGTH

Beam size should be calculated in accordance with accepted structural practice. Use 65% of the operating weight as a uniform load on each beam. The length of the beam must be at least equal to the length of the pan. Maximum permissible beam deflection and centre line distances between bolt holes are tabulated at left.

VXI-S Questions?

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