

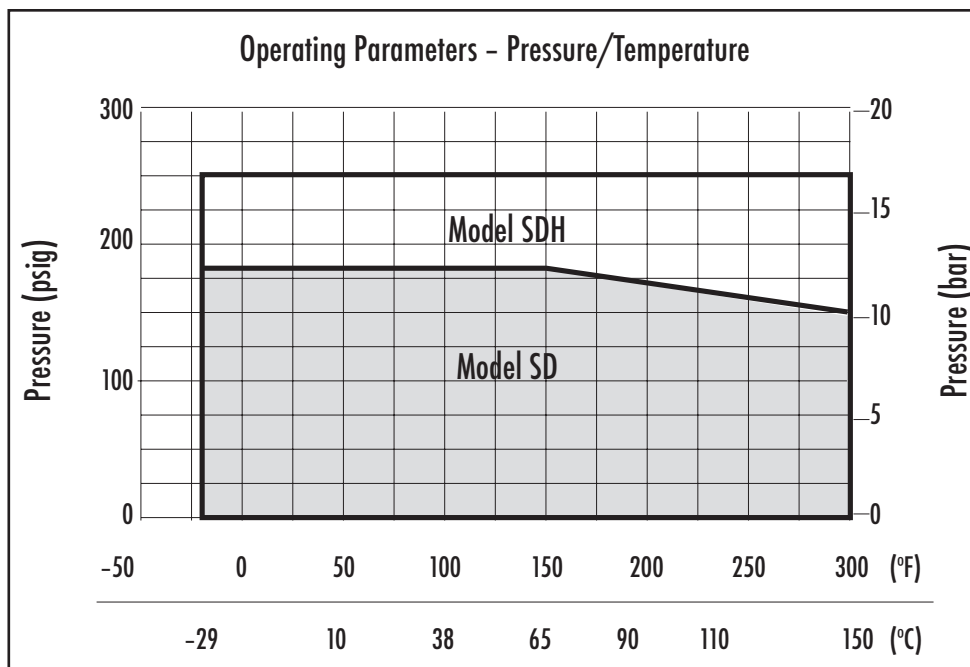
AURORA ACCESSORIES

SUCTION DIFFUSER – MODEL SD

Section **1030** Page **203**

Dated **FEBRUARY 2012**

Supersedes Section 1030 Page 203
Dated December 2010



MODEL	Velocity in Feet Per Second (m/s)							
	f/s (m/s)	3 (0.91)	4 (1.22)	5 (1.52)	6 (1.83)	8 (2.44)	10 (3.05)	12 (3.66)
	Pressure Drop in Feet (m) of Water @ Flow in US gpm (l/s)							
SD0215	ft (m) @ Us gpm(l/s)	0.05 (0.02) 19 (1.2)	0.08 (0.02) 25 (1.6)	0.13 (0.04) 32 (2.0)	0.19 (0.06) 38 (2.4)	0.35 (0.11) 52 (3.3)	0.52 (0.16) 63 (4.0)	0.77 (0.23) 77 (4.9)
SD0202 SD2502* SD0302*	ft (m) @ Us gpm (l/s)	0.11 (0.03) 32 (2.0)	0.20 (0.06) 43 (2.7)	0.32 (0.10) 54 (3.4)	0.43 (0.13) 64 (4.0)	0.80 (0.25) 86 (5.4)	1.28 (0.40) 108 (6.8)	1.72 (0.54) 128 (8.1)
SD2525 SD0325*	ft (m) @ Us gpm(l/s)	0.18 (0.05) 45 (2.8)	0.32 (0.10) 50 (3.2)	0.50 (0.15) 75 (4.7)	0.72 (0.22) 90 (5.7)	1.28 (0.39) 120 (7.6)	2.00 (0.61) 150 (9.5)	2.88 (0.88) 180 (11.4)
SD0303 SD0403*	ft (m) @ Us gpm (l/s)	0.20 (0.06) 70 (4.4)	0.35 (0.11) 92 (5.8)	0.55 (0.17) 115 (7.3)	0.80 (0.24) 138 (8.7)	1.42 (0.43) 185 (11.7)	2.20 (0.67) 230 (14.5)	3.15 (0.96) 276 (17.4)
SD0404 SD0504* SD0604*	ft (m) @ Us gpm(l/s)	0.17 (0.05) 118 (7.4)	0.29 (0.09) 155 (9.8)	0.47 (0.14) 198 (12.5)	0.68 (0.21) 238 (15.0)	1.20 (0.37) 315 (19.9)	1.90 (0.58) 396 (25.0)	2.75 (0.84) 475 (30.0)
SD0505 SD0605*	ft (m) @ Us gpm (l/s)	0.23 (0.07) 187 (11.8)	0.41 (0.13) 250 (15.8)	0.67 (0.20) 315 (19.9)	0.95 (0.29) 375 (23.7)	1.70 (0.52) 500 (31.5)	2.65 (0.81) 625 (39.4)	3.80 (1.16) 750 (47.3)
SD0606 SD0806*	ft (m) @ Us gpm (l/s)	0.22 (0.07) 270 (17.0)	0.38 (0.12) 360 (22.7)	0.60 (0.18) 450 (28.4)	0.86 (0.26) 540 (34.1)	1.54 (0.47) 720 (45.4)	2.40 (0.73) 900 (56.8)	3.45 (1.05) 1080 (68.1)
SD0808 SD1008*	ft (m) @ Us gpm (l/s)	0.21 (0.06) 470 (29.7)	0.37 (0.11) 625 (39.4)	0.58 (0.18) 780 (49.2)	0.85 (0.26) 940 (59.3)	1.50 (0.46) 1250 (78.9)	2.30 (0.70) 1550 (97.8)	3.35 (1.02) 1870 (118.0)
SD1010 SD1210*	ft (m) @ Us gpm (l/s)	0.26 (0.08) 740 (46.7)	0.46 (0.14) 980 (61.8)	0.73 (0.22) 1230 (77.6)	1.03 (0.31) 1480 (93.4)	1.85 (0.56) 1960 (123.7)	2.92 (0.89) 2450 (154.6)	4.20 (1.28) 2940 (185.5)
SD1212 SD1412*	ft (m) @ Us gpm (l/s)	0.25 (0.08) 1080 (68.1)	0.44 (0.13) 1400 (88.3)	0.72 (0.22) 1750 (110.4)	1.02 (0.31) 2100 (132.5)	1.81 (0.55) 2800 (176.7)	2.80 (0.85) 3500 (220.8)	4.00 (1.22) 4200 (265.0)
SD1414 SD1614*	ft (m) @ Us gpm (l/s)	0.28 (0.09) 1440 (90.9)	0.58 (0.18) 1920 (121.1)	0.92 (0.28) 2400 (151.4)	1.23 (0.38) 2880 (181.7)	2.13 (0.65) 3840 (242.3)	3.50 (1.07) 4800 (302.8)	5.30 (1.62) 5760 (363.4)

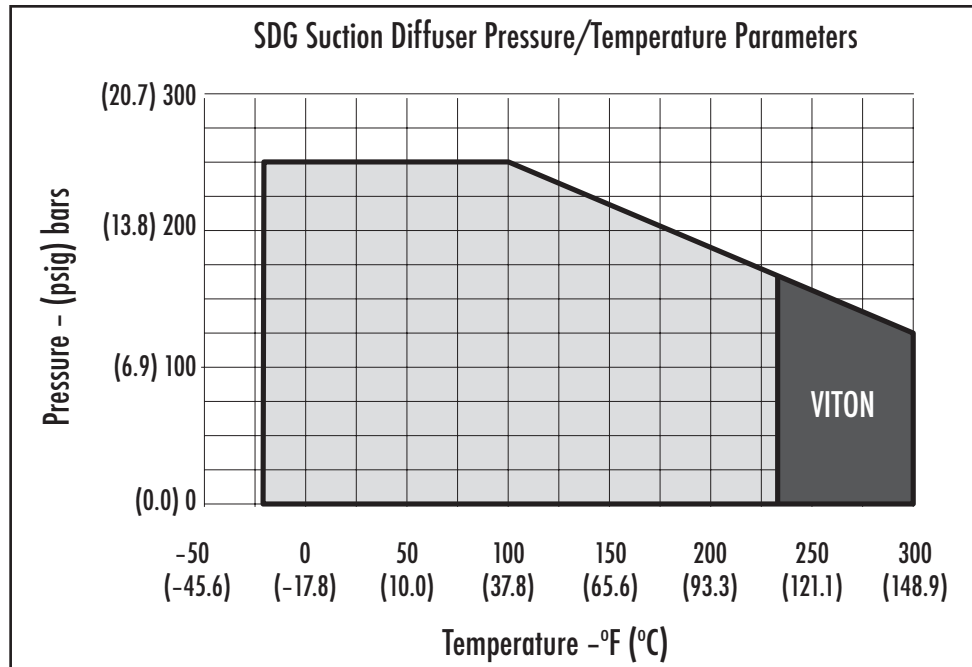
*Flange size does not apply to pipe size entrance into suction diffuser.

AURORA ACCESSORIES
SUCTION DIFFUSER – MODEL SDG
GROOVED INLET – FLANGED OUTLET

Section **1030** Page **205**

Dated **FEBRUARY 2012**

Supersedes Section 1030 Page 205
Dated December 2010



MODEL	Velocity in Feet Per Second (m/s)							
	f/s (m/s)	3 (0.91)	4 (1.22)	5 (1.52)	6 (1.83)	8 (2.44)	10 (3.05)	12 (3.66)
	Pressure Drop in Feet (m) of Water @ Flow in US gpm (l/s)							
SDG0202 SDG2502* SDG0302*	ft (m) @ Us gpm (l/s)	0.11 (0.03) 32 (2.0)	0.20 (0.06) 43 (2.7)	0.32 (0.10) 54 (3.4)	0.43 (0.13) 64 (4.0)	0.80 (0.25) 86 (5.4)	1.28 (0.40) 108 (6.8)	1.72 (0.54) 128 (8.1)
SDG2525 SDG0325*	ft (m) @ Us gpm (l/s)	0.18 (0.05) 45 (2.8)	0.32 (0.10) 50 (3.2)	0.50 (0.15) 75 (4.7)	0.72 (0.22) 90 (5.7)	1.28 (0.39) 120 (7.6)	2.00 (0.61) 150 (9.5)	2.88 (0.88) 180 (11.4)
SDG0303 SDG0403*	ft (m) @ Us gpm (l/s)	0.20 (0.06) 70 (4.4)	0.35 (0.11) 92 (5.8)	0.55 (0.17) 115 (7.3)	0.80 (0.24) 138 (8.7)	1.42 (0.43) 185 (11.7)	2.20 (0.67) 230 (14.5)	3.15 (0.96) 276 (17.4)
SDG0404 SDG0504* SDG0604*	ft (m) @ Us gpm (l/s)	0.17 (0.05) 118 (7.4)	0.29 (0.09) 155 (9.8)	0.47 (0.14) 198 (12.5)	0.68 (0.21) 238 (15.0)	1.20 (0.37) 315 (19.9)	1.90 (0.58) 396 (25.0)	2.75 (0.84) 475 (30.0)
SDG0505 SDG0605*	ft (m) @ Us gpm (l/s)	0.23 (0.07) 187 (11.8)	0.41 (0.13) 250 (15.8)	0.67 (0.20) 315 (19.9)	0.95 (0.29) 375 (23.7)	1.70 (0.52) 500 (31.5)	2.65 (0.81) 625 (39.4)	3.80 (1.16) 750 (47.3)
SDG0606 SDG0806*	ft (m) @ Us gpm (l/s)	0.22 (0.07) 270 (17.0)	0.38 (0.12) 360 (22.7)	0.60 (0.18) 450 (28.4)	0.86 (0.26) 540 (34.1)	1.54 (0.47) 720 (45.4)	2.40 (0.73) 900 (56.8)	3.45 (1.05) 1080 (68.1)
SDG0808 SDG1008*	ft (m) @ Us gpm (l/s)	0.21 (0.06) 470 (29.7)	0.37 (0.11) 625 (39.4)	0.58 (0.18) 780 (49.2)	0.85 (0.26) 940 (59.3)	1.50 (0.46) 1250 (78.9)	2.30 (0.70) 1550 (97.8)	3.35 (1.02) 1870 (118.0)
SDG1010 SDG1210*	ft (m) @ Us gpm (l/s)	0.26 (0.08) 740 (46.7)	0.46 (0.14) 980 (61.8)	0.73 (0.22) 1230 (77.6)	1.03 (0.31) 1480 (93.4)	1.85 (0.56) 1960 (123.7)	2.92 (0.89) 2450 (154.6)	4.20 (1.28) 2940 (185.5)
SDG1212 SDG1412*	ft (m) @ Us gpm (l/s)	0.25 (0.08) 1080 (68.1)	0.44 (0.13) 1400 (88.3)	0.72 (0.22) 1750 (110.4)	1.02 (0.31) 2100 (132.5)	1.81 (0.55) 2800 (176.7)	2.80 (0.85) 3500 (220.8)	4.00 (1.22) 4200 (265.0)

*Flange size does not apply to pipe size entrance into suction diffuser.

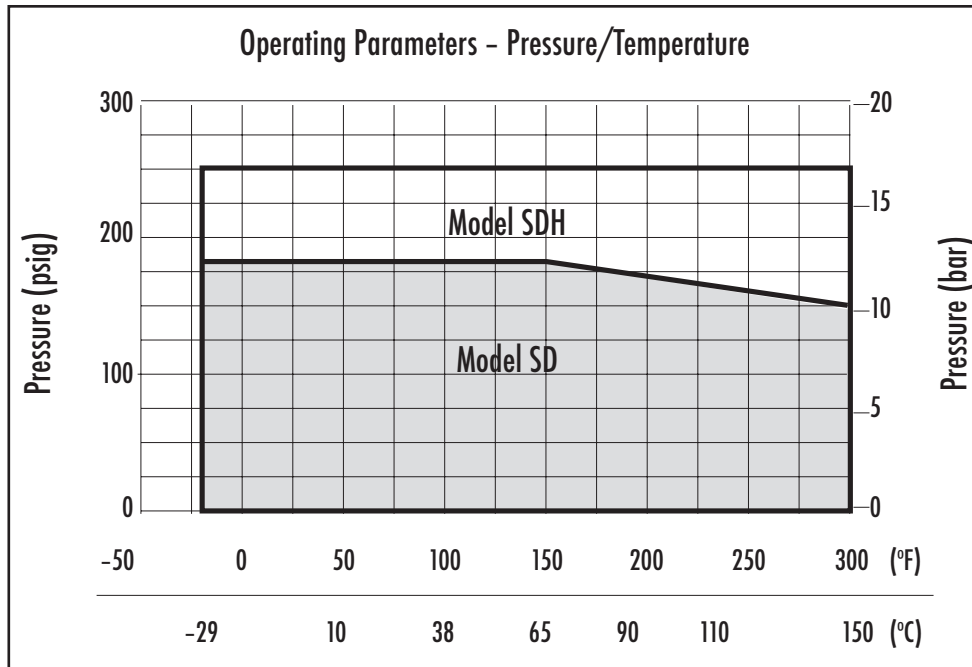
AURORA ACCESSORIES

SUCTION DIFFUSER – MODEL SDH

Section **1030** Page **207**

Dated **FEBRUARY 2012**

Supersedes Section 1030 Page 207
Dated May 2010



MODEL	Velocity in Feet Per Second (m/s)							
	f/s (m/s)	3 (0.91)	4 (1.22)	5 (1.52)	6 (1.83)	8 (2.44)	10 (3.05)	12 (3.66)
	Pressure Drop in Feet (m) of Water @ Flow in US gpm (l/s)							
SDH0202 SDH2502* SDH0302*	ft (m) @ Us gpm (l/s)	0.11 (0.03) 32 (2.0)	0.20 (0.06) 43 (2.7)	0.32 (0.10) 54 (3.4)	0.43 (0.13) 64 (4.0)	0.80 (0.25) 86 (5.4)	1.28 (0.40) 108 (6.8)	1.72 (0.54) 128 (8.1)
SDH2525 SDH0325*	ft (m) @ Us gpm (l/s)	0.18 (0.05) 45 (2.8)	0.32 (0.10) 50 (3.2)	0.50 (0.15) 75 (4.7)	0.72 (0.22) 90 (5.7)	1.28 (0.39) 120 (7.6)	2.00 (0.61) 150 (9.5)	2.88 (0.88) 180 (11.4)
SDH0303 SDH0403*	ft (m) @ Us gpm (l/s)	0.20 (0.06) 70 (4.4)	0.35 (0.11) 92 (5.8)	0.55 (0.17) 115 (7.3)	0.80 (0.24) 138 (8.7)	1.42 (0.43) 185 (11.7)	2.20 (0.67) 230 (14.5)	3.15 (0.96) 276 (17.4)
SDH0404 SDH0504* SDH0604*	ft (m) @ Us gpm (l/s)	0.17 (0.05) 118 (7.4)	0.29 (0.09) 155 (9.8)	0.47 (0.14) 198 (12.5)	0.68 (0.21) 238 (15.0)	1.20 (0.37) 315 (19.9)	1.90 (0.58) 396 (25.0)	2.75 (0.84) 475 (30.0)
SDH0505 SDH0605*	ft (m) @ Us gpm (l/s)	0.23 (0.07) 187 (11.8)	0.41 (0.13) 250 (15.8)	0.67 (0.20) 315 (19.9)	0.95 (0.29) 375 (23.7)	1.70 (0.52) 500 (31.5)	2.65 (0.81) 625 (39.4)	3.80 (1.16) 750 (47.3)
SDH0606 SDH0806*	ft (m) @ Us gpm (l/s)	0.22 (0.07) 270 (17.0)	0.38 (0.12) 360 (22.7)	0.60 (0.18) 450 (28.4)	0.86 (0.26) 540 (34.1)	1.54 (0.47) 720 (45.4)	2.40 (0.73) 900 (56.8)	3.45 (1.05) 1080 (68.1)
SDH0808 SDH1008*	ft (m) @ Us gpm (l/s)	0.21 (0.06) 470 (29.7)	0.37 (0.11) 625 (39.4)	0.58 (0.18) 780 (49.2)	0.85 (0.26) 940 (59.3)	1.50 (0.46) 1250 (78.9)	2.30 (0.70) 1550 (97.8)	3.35 (1.02) 1870 (118.0)
SDH1010 SDH1210*	ft (m) @ Us gpm (l/s)	0.26 (0.08) 740 (46.7)	0.46 (0.14) 980 (61.8)	0.73 (0.22) 1230 (77.6)	1.03 (0.31) 1480 (93.4)	1.85 (0.56) 1960 (123.7)	2.92 (0.89) 2450 (154.6)	4.20 (1.28) 2940 (185.5)
SDH1212 SDH1412*	ft (m) @ Us gpm (l/s)	0.25 (0.08) 1080 (68.1)	0.44 (0.13) 1400 (88.3)	0.72 (0.22) 1750 (110.4)	1.02 (0.31) 2100 (132.5)	1.81 (0.55) 2800 (176.7)	2.80 (0.85) 3500 (220.8)	4.00 (1.22) 4200 (265.0)

*Flange size does not apply to pipe size entrance into suction diffuser.

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AURORA ACCESSORIES

SUCTION DIFFUSER PRESSURE DROP CHART

