

## 102M, 103M, 104M

### Wall/Ceiling Registers 2,3,4 way Deflection

Face Jet Velocity		300	400	500	600	700	800	900	1000	
Total Pressure Loss		0.007	0.011	0.017	0.023	0.032	0.042	0.053	0.064	
Size	Free Area									
<b>6x6</b>	<b>13</b>	<b>CFM</b>	<b>40</b>	<b>55</b>	<b>80</b>	<b>96</b>	<b>112</b>	<b>128</b>	<b>144</b>	<b>160</b>
		Throw	3	4	4	5	6	7	7	160
		NC	<20	20	25	25	30	30	35	35
<b>8x4</b>	<b>19</b>	<b>CFM</b>	<b>38</b>	<b>45</b>	<b>75</b>	<b>90</b>	<b>105</b>	<b>120</b>	<b>135</b>	<b>150</b>
		Throw	3	4	5	6	7	7	8	10
		NC	<20	20	25	25	30	30	35	35
<b>8X6</b>	<b>30</b>	<b>CFM</b>	<b>69</b>	<b>92</b>	<b>115</b>	<b>138</b>	<b>161</b>	<b>184</b>	<b>207</b>	<b>230</b>
		Throw	3	5	6	7	8	9	10	12
		NC	<20	20	25	25	30	30	35	35
<b>8x8</b>	<b>37</b>	<b>CFM</b>	<b>93</b>	<b>124</b>	<b>155</b>	<b>180</b>	<b>217</b>	<b>248</b>	<b>279</b>	<b>310</b>
		Throw	4	6	7	8	10	11	13	14
		NC	<20	20	25	25	30	30	35	40
<b>10x4</b>	<b>24</b>	<b>CFM</b>	<b>50</b>	<b>76</b>	<b>95</b>	<b>114</b>	<b>133</b>	<b>152</b>	<b>171</b>	<b>190</b>
		Throw	4	5	6	7	8	9	11	12
		NC	<20	20	25	25	30	30	35	40
<b>10x6</b>	<b>38</b>	<b>CFM</b>	<b>90</b>	<b>120</b>	<b>150</b>	<b>180</b>	<b>210</b>	<b>240</b>	<b>270</b>	<b>300</b>
		Throw	4	6	8	9	11	12	14	15
		NC	<20	20	25	25	30	30	35	40
<b>10x8</b>	<b>44</b>	<b>CFM</b>	<b>120</b>	<b>160</b>	<b>200</b>	<b>240</b>	<b>280</b>	<b>320</b>	<b>360</b>	<b>400</b>
		Throw	5	7	10	12	14	15	18	20
		NC	<20	20	25	25	30	30	35	40
<b>10x10</b>	<b>61</b>	<b>CFM</b>	<b>144</b>	<b>197</b>	<b>240</b>	<b>288</b>	<b>336</b>	<b>384</b>	<b>432</b>	<b>480</b>
		Throw	6	8	10	12	14	16	18	20
		NC	<20	20	25	25	30	35	35	40
<b>12x4</b>	<b>30</b>	<b>CFM</b>	<b>69</b>	<b>92</b>	<b>115</b>	<b>138</b>	<b>161</b>	<b>184</b>	<b>207</b>	<b>230</b>
		Throw	3	3.5	4	5	6	7	7	8
		NC	<20	20	25	25	30	35	35	40
<b>12x6</b>	<b>47</b>	<b>CFM</b>	<b>108</b>	<b>144</b>	<b>180</b>	<b>216</b>	<b>252</b>	<b>288</b>	<b>324</b>	<b>360</b>
		Throw	4	6	8	9	11	12	14	15
		NC	<20	20	25	30	35	35	35	40
<b>12x8</b>	<b>55</b>	<b>CFM</b>	<b>147</b>	<b>196</b>	<b>245</b>	<b>294</b>	<b>343</b>	<b>392</b>	<b>441</b>	<b>490</b>
		Throw	5	7	9	11	13	15	17	19
		NC	<20	20	25	30	35	35	40	40
<b>12x12</b>	<b>91</b>	<b>CFM</b>	<b>219</b>	<b>292</b>	<b>365</b>	<b>438</b>	<b>511</b>	<b>584</b>	<b>657</b>	<b>730</b>
		Throw	7	10	13	15	18	20	23	24
		NC	<20	25	25	30	30	35	35	40
<b>14x4</b>	<b>35</b>	<b>CFM</b>	<b>74</b>	<b>98</b>	<b>119</b>	<b>142</b>	<b>167</b>	<b>190</b>	<b>214</b>	<b>246</b>
		Throw	4	6	8	9	11	12	14	15
		NC	<20	20	25	25	30	35	35	40
<b>14x6</b>	<b>56</b>	<b>CFM</b>	<b>120</b>	<b>160</b>	<b>200</b>	<b>240</b>	<b>280</b>	<b>320</b>	<b>360</b>	<b>400</b>
		Throw	5	7	10	12	14	15	18	20
		NC	<20	20	25	30	35	35	35	40
<b>14x8</b>	<b>66</b>	<b>CFM</b>	<b>174</b>	<b>232</b>	<b>290</b>	<b>348</b>	<b>406</b>	<b>464</b>	<b>522</b>	<b>580</b>
		Throw	6	9	11	13	16	18	20	22
		NC	<20	20	25	30	35	40	40	40
<b>14x14</b>	<b>127</b>	<b>CFM</b>	<b>303</b>	<b>404</b>	<b>505</b>	<b>606</b>	<b>707</b>	<b>808</b>	<b>909</b>	<b>1010</b>
		Throw	8	11	14	17	20	23	26	28
		NC	<20	25	25	30	30	35	35	40

Pressure Loss is for registers only and is total of static and velocity measured in inches water gage. Throw is distance in feet to a terminal velocity of 50fpm.  
Face Jet Velocity is the velocity in feet/minute measured at the face.



## Engineering Data

		Throw	6	10	12	14	17	19	21	23
<b>20x8</b>	<b>100</b>	<b>CFM</b>	<b>234</b>	<b>312</b>	<b>390</b>	<b>468</b>	<b>546</b>	<b>624</b>	<b>702</b>	<b>780</b>
		Throw	8	11	13	16	19	21	24	26
<b>24x8</b>	<b>122</b>	<b>CFM</b>	<b>303</b>	<b>404</b>	<b>505</b>	<b>606</b>	<b>707</b>	<b>808</b>	<b>909</b>	<b>1010</b>
		Throw	8	11	14	17	20	23	26	28
<b>30x8</b>	<b>156</b>	<b>CFM</b>	<b>348</b>	<b>464</b>	<b>580</b>	<b>686</b>	<b>812</b>	<b>928</b>	<b>1044</b>	<b>1160</b>
		Throw	10	13	16	19	22	25	28	30

Pressure Loss is for registers only and is total of static and velocity measured in inches water gage. Throw is distance in feet to a terminal velocity of 50fpm.  
Face Jet Velocity is the velocity in feet/minute measured at the face.