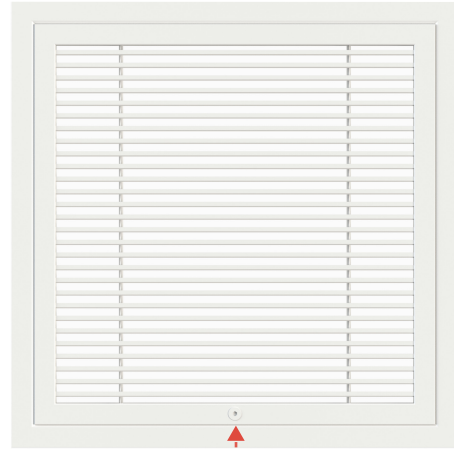


# DPFF MODEL

## FIXED LINEAR BAR DIFFUSERS FOR RETURN WITH FILTER HOLDER AND FLAT GRILLE FRAME

- Offers different free areas.
- Aerodynamic design.
- Non-vibration.
- Single 1/4 turn clasp.
- Excellent choice for installations where performance and appearance is essential in a Air distribution system.
- In addition to their great appearance, they feature a collapsible core and filter holder frame, can accommodate either a washable or a disposable filter, 3/4 "to 1" thick.
- Designed for heating or cooling system, can be used for both: air supply or return, allowing installations of great aesthetic value.



**NEW CLASP.**  
Easy and quick filter access system, this avoid the fall and/or loss of bolt's.

**Available models**

**Straight Phillips Allen**

**CONSTRUCTION:** Extruded aluminum.

**FINISH:** Standard white Anodic acrylic paint.  
Other colors available.

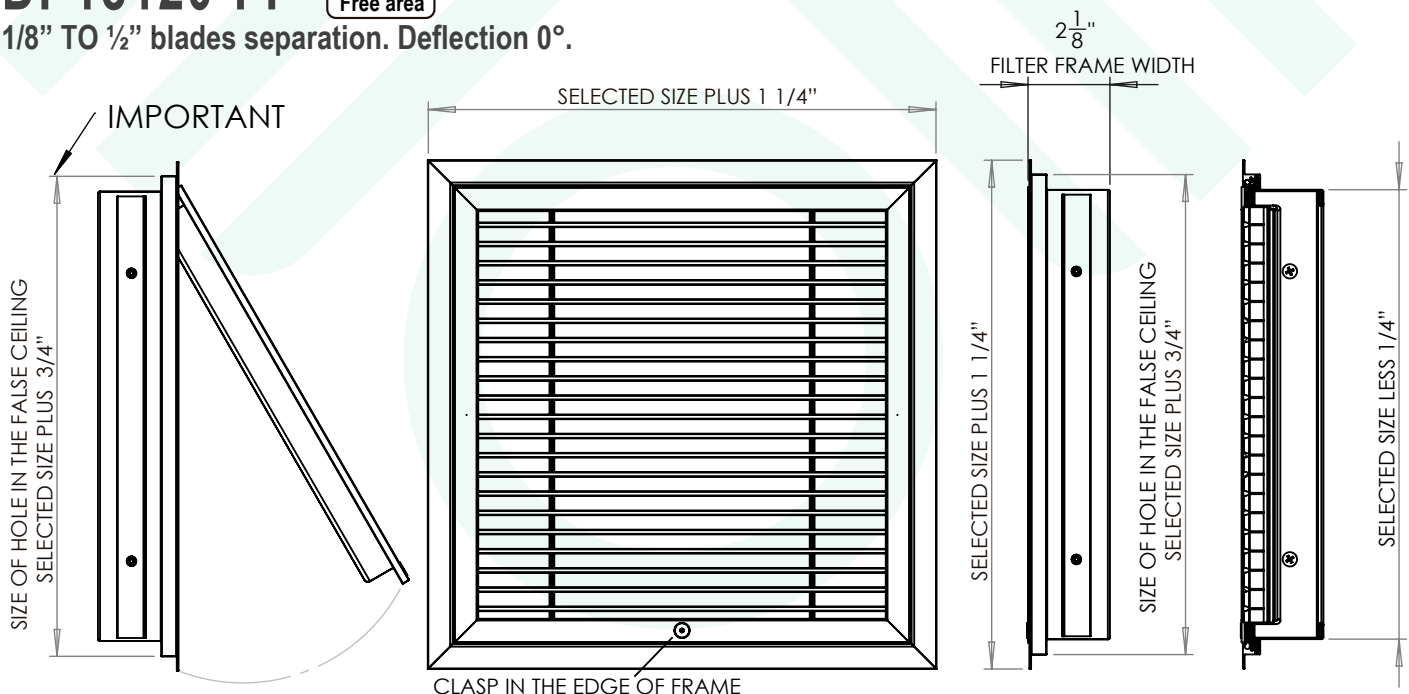
**PERFORMANCE:** (Not considering filter's effect).  
DP18120-FF 75% Free area. DP18380-FF 66% Free area.  
DP18385-FF 66% Free area.  
DP14230-FF 66% free area. DP14120-FF 50% free area.

## Dimensional Data

### DP18120-FF

**75%**  
Free area

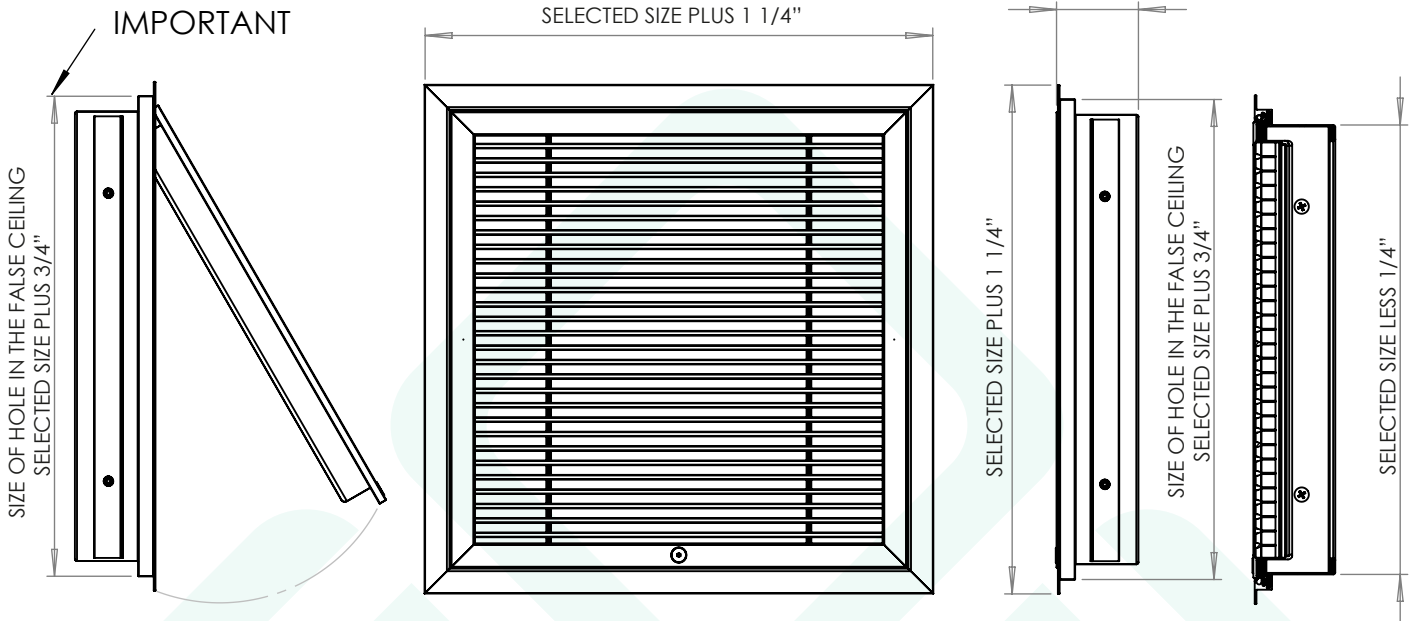
1/8" TO 1/2" blades separation. Deflection 0°.



# DP18380-FF

66% Free area

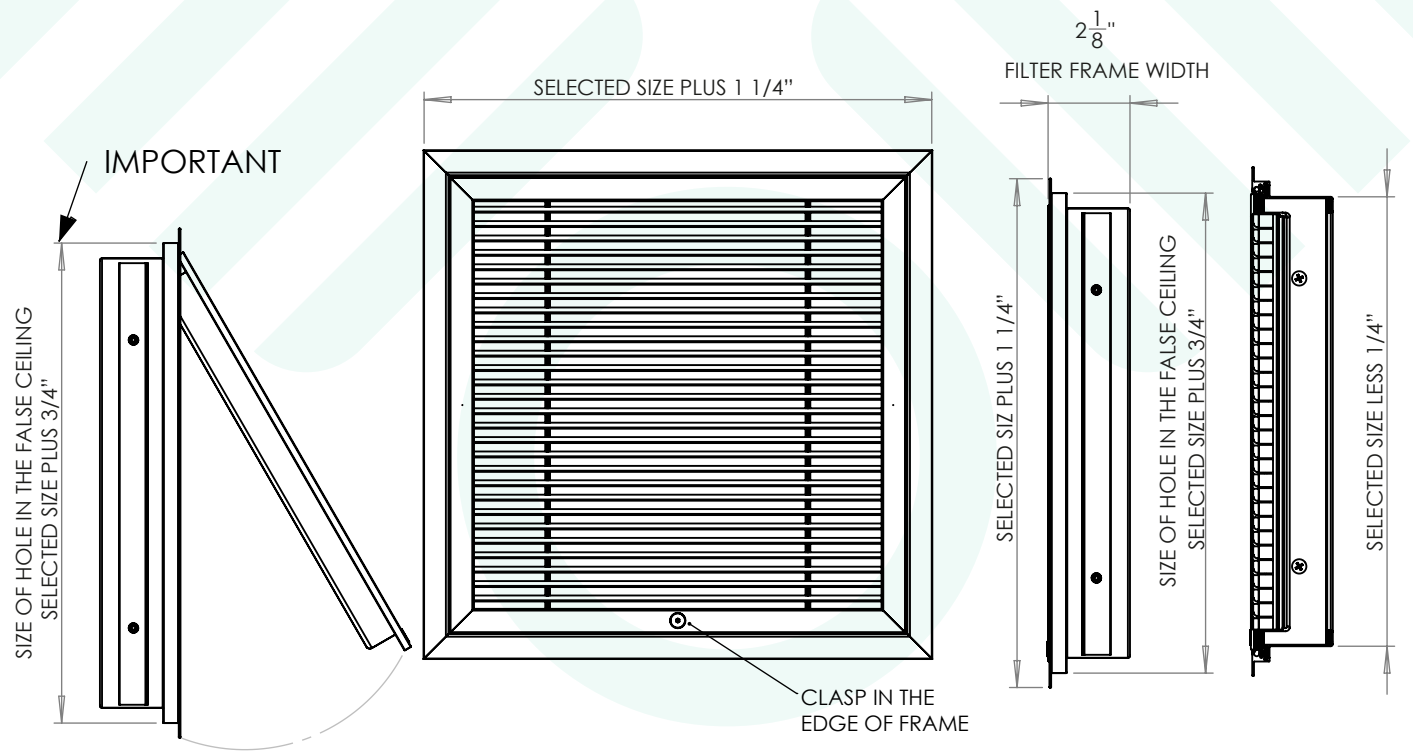
1/8" TO 3/8" blades separation. Deflection 0°.



# DP18385-FF

66% Free area

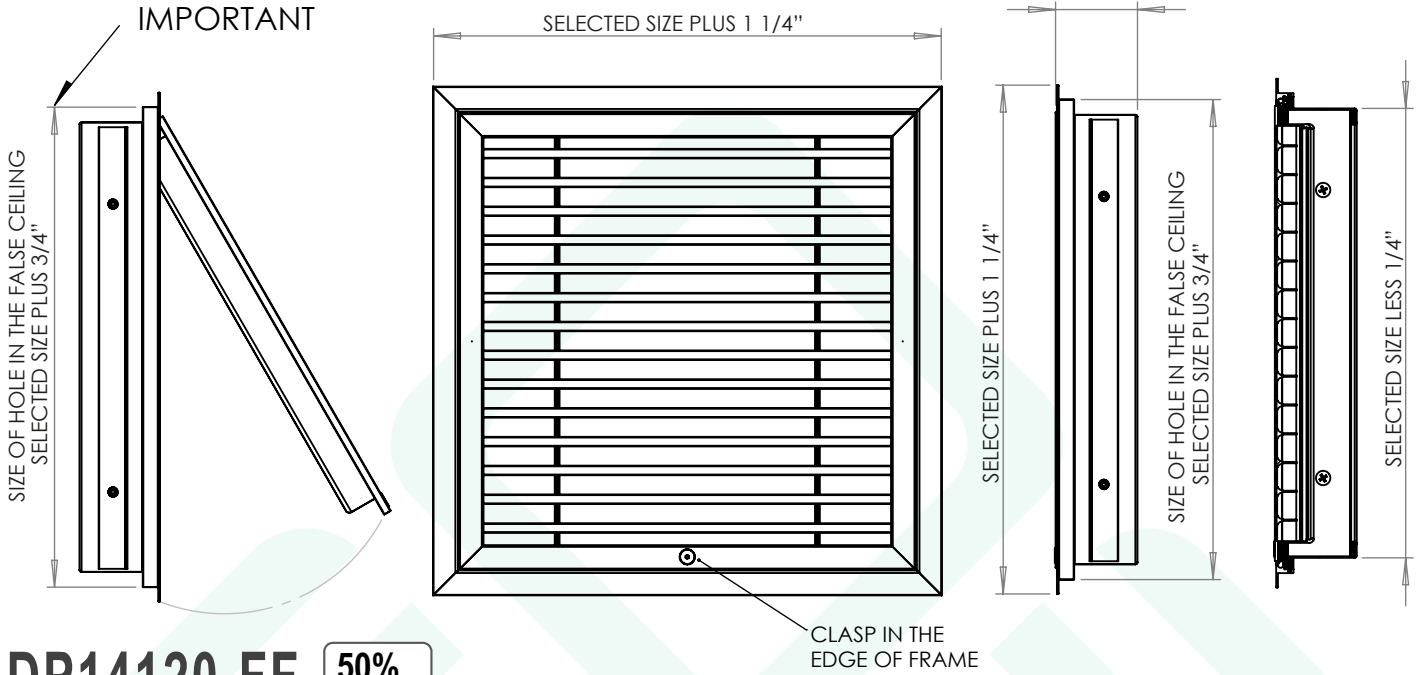
1/8" TO 3/8" blades separation. Deflection 15°.



# DP14230-FF

66%  
Free area

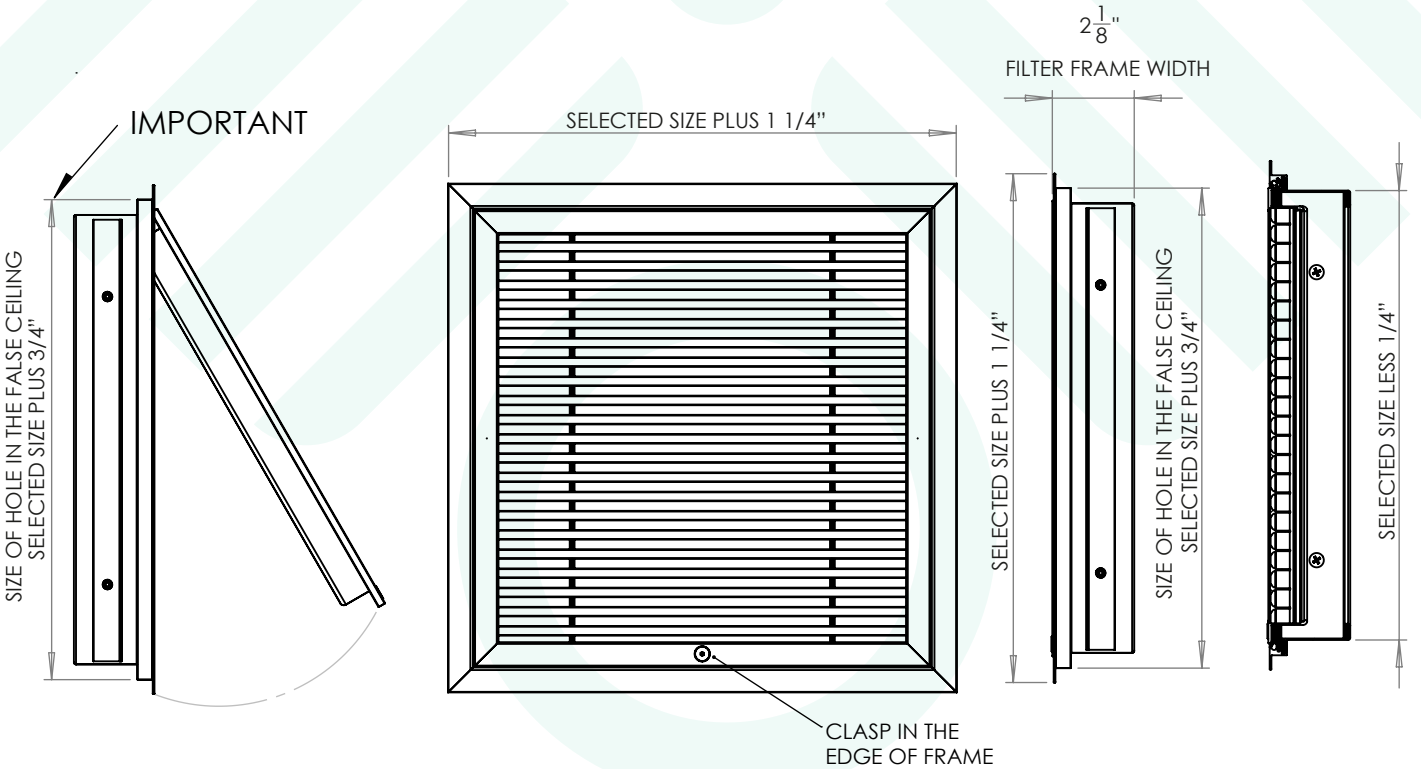
1/4" TO 2/3" blades separation. Deflection 0°.



# DP14120-FF

50%  
Free area

1/4" TO 3/2" blades separation. Deflection 0°.



## RETURN LINEAR BAR DIFFUSER & REGISTERS WITH FILTER FRAME

TABLE 1 PERFORMMANCE DATA

NOMINAL WIDTH INCHES	OUTLET VELOCITY (Vk)	200	300	400	500	550	600	650	700
	VELOCITY PRESSURE (VP)	0.002	0.006	0.010	0.016	0.019	0.022	0.027	0.031
	STATIC PRESSURE (SP)	-0.006	-0.015	-0.024	-0.035	-0.041	-0.046	-0.060	-0.073
<b>2"</b> AK / FT = 0.114	<b>CFM / Feet</b>	<b>23</b>	<b>35</b>	<b>45</b>	<b>57</b>	<b>63</b>	<b>68</b>	<b>74</b>	<b>80</b>
	<b>NC</b>	—	<b>15</b>	<b>16</b>	<b>17</b>	<b>18</b>	<b>19</b>	<b>20</b>	<b>21</b>
<b>3"</b> AK / FT = 0.166	<b>CFM / Feet</b>	<b>33</b>	<b>50</b>	<b>66</b>	<b>83</b>	<b>91</b>	<b>100</b>	<b>108</b>	<b>116</b>
	<b>NC</b>	—	<b>16</b>	<b>17</b>	<b>18</b>	<b>20</b>	<b>21</b>	<b>22</b>	<b>24</b>
<b>4"</b> AK / FT = 0.218	<b>CFM / Feet</b>	<b>44</b>	<b>65</b>	<b>87</b>	<b>109</b>	<b>120</b>	<b>130</b>	<b>142</b>	<b>153</b>
	<b>NC</b>	—	<b>17</b>	<b>18</b>	<b>19</b>	<b>21</b>	<b>22</b>	<b>24</b>	<b>26</b>
<b>5"</b> AK / FT = 0.280	<b>CFM / Feet</b>	<b>56</b>	<b>84</b>	<b>112</b>	<b>140</b>	<b>154</b>	<b>168</b>	<b>182</b>	<b>196</b>
	<b>NC</b>	—	<b>18</b>	<b>20</b>	<b>21</b>	<b>23</b>	<b>22</b>	<b>24</b>	<b>26</b>
<b>6"</b> AK / FT = 0.333	<b>CFM / Feet</b>	<b>67</b>	<b>100</b>	<b>133</b>	<b>167</b>	<b>183</b>	<b>200</b>	<b>216</b>	<b>233</b>
	<b>NC</b>	—	<b>19</b>	<b>21</b>	<b>23</b>	<b>24</b>	<b>25</b>	<b>26</b>	<b>27</b>
<b>8"</b> AK / FT = 0.488	<b>CFM / Feet</b>	<b>98</b>	<b>146</b>	<b>195</b>	<b>244</b>	<b>268</b>	<b>293</b>	<b>317</b>	<b>342</b>
	<b>NC</b>	—	<b>20</b>	<b>22</b>	<b>25</b>	<b>26</b>	<b>27</b>	<b>28</b>	<b>29</b>
<b>10"</b> AK / FT = 0.552	<b>CFM / Feet</b>	<b>110</b>	<b>166</b>	<b>221</b>	<b>276</b>	<b>304</b>	<b>331</b>	<b>359</b>	<b>386</b>
	<b>NC</b>	—	<b>21</b>	<b>23</b>	<b>26</b>	<b>27</b>	<b>28</b>	<b>29</b>	<b>30</b>
<b>12"</b> AK / FT = 0.666	<b>CFM / Feet</b>	<b>133</b>	<b>200</b>	<b>266</b>	<b>333</b>	<b>366</b>	<b>400</b>	<b>433</b>	<b>466</b>
	<b>NC</b>	<b>21</b>	<b>22</b>	<b>24</b>	<b>27</b>	<b>28</b>	<b>29</b>	<b>30</b>	<b>32</b>

NC20

NC30

NOTES:

1- THE PERFORMANCE DATA OF THE BASE LINEAR FIXED BAR DIFFUSER WITH FILTER FRAME ARE TABULATED WITHOUT CONSIDER THE DISPOSABLE OR WASHABLE AIR FILTER. FOR AN DROP OF ACTUAL PERFORMANCE DATA CONSIDER THE PRESSURE THE INSTALLED FILTER AND ADD THIS VALUE TO THE STATIC PRESSURE.

## RETURN LINEAR BAR DIFFUSER & REGISTERS WITH FILTER FRAME

TABLE 1 PERFORMANCE DATA

NOMINAL WIDTH INCHES	OUTLET VELOCITY (V <sub>K</sub> )	400	500	600	700	800
	VELOCITY PRESSURE (VP)	0.009	0.015	0.022	0.029	0.037
<b>2"</b> AK / FT = 0.114	<b>CFM / Feet</b>	50	62	75	87	100
	<b>NC</b>	—	13	14	15	16
<b>3"</b> AK / FT = 0.166	<b>CFM / Feet</b>	74	93	112	130	150
	<b>NC</b>	—	15	16	17	18
<b>4"</b> AK / FT = 0.218	<b>CFM / Feet</b>	100	125	150	175	200
	<b>NC</b>	—	16	17	19	20
<b>5"</b> AK / FT = 0.280	<b>CFM / Feet</b>	125	156	187	218	250
	<b>NC</b>	—	18	20	21	23
<b>6"</b> AK / FT = 0.333	<b>CFM / Feet</b>	67	100	133	167	183
	<b>NC</b>	—	20	21	23	24
<b>8"</b> AK / FT = 0.488	<b>CFM / Feet</b>	200	250	300	350	400
	<b>NC</b>	—	21	22	25	26
<b>10"</b> AK / FT = 0.552	<b>CFM / Feet</b>	250	312	375	437	500
	<b>NC</b>	—	21	23	26	28
<b>12"</b> AK / FT = 0.666	<b>CFM / Feet</b>	300	370	450	525	600
	<b>NC</b>	21	22	24	28	30

NC20

NC30

NOTES:

1- THE PERFORMANCE DATA OF THE BASE LINEAR FIXED BAR DIFFUSER WITH FILTER FRAME ARE TABULATED WITHOUT CONSIDER THE DISPOSABLE OR WASHABLE AIR FILTER. FOR AN DROP OF ACTUAL PERFORMANCE DATA CONSIDER THE PRESSURE THE INSTALLED FILTER AND ADD THIS VALUE TO THE STATIC PRESSURE.

## RETURN LINEAR BAR DIFFUSER & REGISTERS WITH FILTER FRAME

TABLE 1 PERFORMANCE DATA

NOMINAL WIDTH INCHES	OUTLET VELOCITY (V <sub>K</sub> )	400	500	600	700	800
	VELOCITY PRESSURE (VP)	0.014	0.020	0.028	0.039	0.052
<b>2"</b> AK / FT = 0.114	CFM / Feet	33	41	49	58	66
	NC	—	16	17	18	19
<b>3"</b> AK / FT = 0.166	CFM / Feet	49	62	74	86	99
	NC	—	17	18	19	20
<b>4"</b> AK / FT = 0.218	CFM / Feet	66	82	99	115	132
	NC	—	18	19	20	21
<b>5"</b> AK / FT = 0.280	CFM / Feet	82	103	123	144	165
	NC	—	18	20	21	23
<b>6"</b> AK / FT = 0.333	CFM / Feet	98	123	148	173	197
	NC	—	20	21	23	24
<b>8"</b> AK / FT = 0.488	CFM / Feet	133	166	200	230	260
	NC	—	21	22	25	26
<b>10"</b> AK / FT = 0.552	CFM / Feet	165	206	247	289	330
	NC	—	22	26	28	30
<b>12"</b> AK / FT = 0.666	CFM / Feet	198	248	297	347	396
	NC	23	24	27	28	31

NC20

NC30

NOTES:  
 1- THE PERFORMANCE DATA OF THE BASE LINEAR FIXED BAR DIFFUSER WITH FILTER FRAME ARE TABULATED WITHOUT CONSIDER THE DISPOSABLE OR WASHABLE AIR FILTER. FOR AN DROP OF ACTUAL PERFORMANCE DATA CONSIDER THE PRESSURE THE INSTALLED FILTER AND ADD THIS VALUE TO THE STATIC PRESSURE.