

# Challenger Series

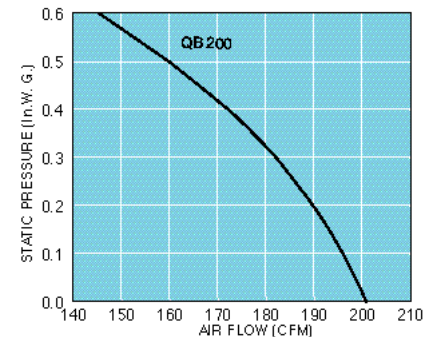
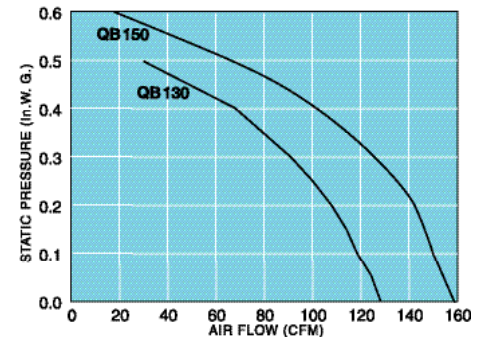
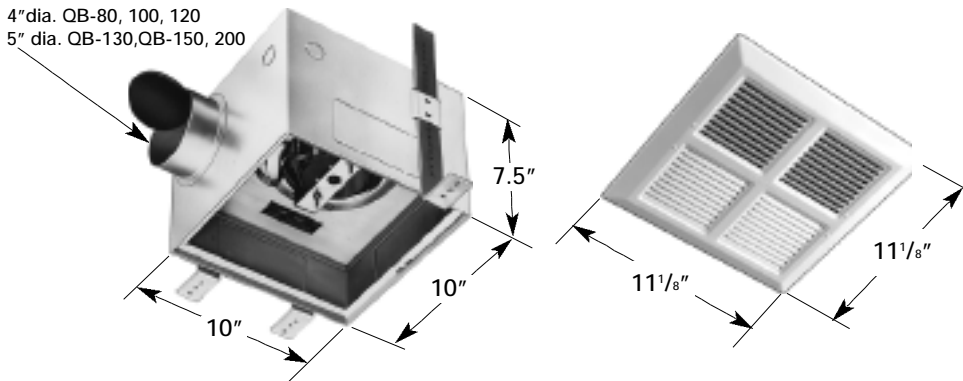
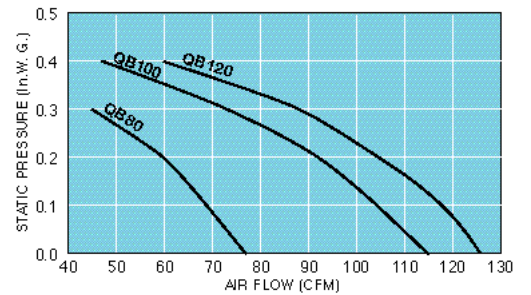
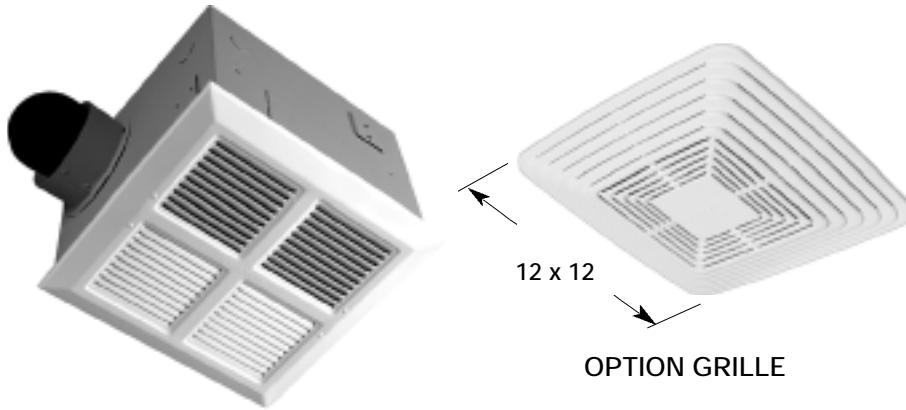
Perfect for any Commercial application.  
Ceiling or inline application.

The Challenger Fan Series has surpassed our industries expectations beyond imagination. Its housing is made of heavy duty 24 GA galvanized satin coat metal which is known for its ability to resist corrosion. The scroll is internally gasketed eliminating vibration and the possibility of air transferring between the exhaust and supply. A universal mounting bracket allows the installer to fasten the bracket horizontally for wood joist applications or vertically

for ceiling mount applications.

This fan series incorporates a inlet venturi designed to allow air entering the blower wheel with minimum resistance and maximum efficiency. The blower and motor are isolated with neoprene pads to ensure quiet vibration free operation. This fan is in a league of its own offering a very superior quality product at extremely competitive price.

## Models QB-80, QB-100, QB-120, QB-130, QB-150, QB-200



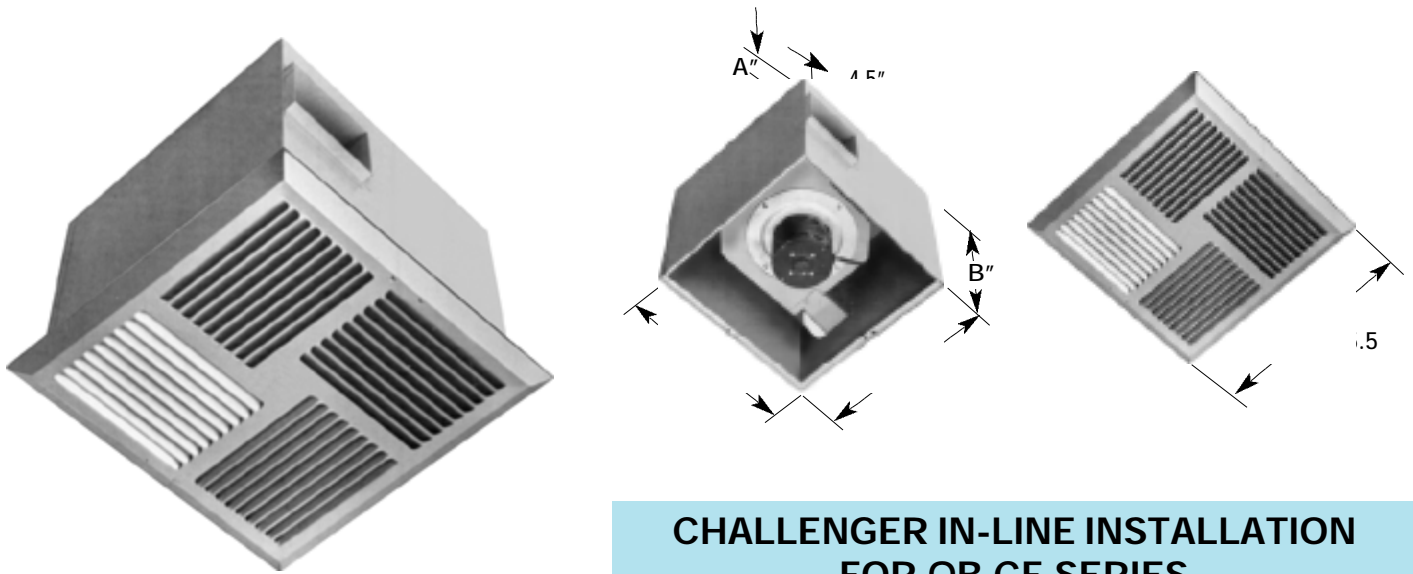
- |  |                                  |
|--|----------------------------------|
| <b>STANDARD</b>  | <b>OPTIONAL</b>                  |
| - WHITE ALUMINUM LOUVRED GRILLE                                      | - WHITE STYRENE GRILLE           |
| - CONTINUOUS DUTY LIFE TIME LUBRICATED MOTOR WITH THERMAL PROTECTION | - INLINE ADAPTER KIT             |
| - GALVANIZED METAL FORWARD CURVED BLOWER WHEEL                       | - SPEED CONTROLLER               |
| - CLOSE CELL NEOPRENE DAMPER   | - TERMINATION KIT                |
| - UNIVERSAL MOUNTING BRACKETS  | - BUILT IN FIRE RADIATION DAMPER |
| - NEOPRENE VIBRATION ISOLATOR  | - ALUMINUM SPRING LOADED DAMPER  |
| - PLUG TYPE DISCONNECT   | - INSULATED HOUSING              |

### PERFORMANCE CHART - Challenger Series

MODEL	RPM	AMPS	H.P.	S.P.	0.00	0.10	0.125	0.20	0.25	0.30	0.40	0.50	0.60	0.70	SONES
QB80	1080	0.35	1/200	CFM	77	69	64	60	52	45					2.0
QB 100	1550	0.6	1/90	CFM	115	105	98	92	82	73	47				2.5
QB 120	1650	0.9	1/40	CFM	126	118	111	105	96	88	60				3.3
QB-130	1400	0.7	1/75	CFM	128	119	113	108	100	91	68				2.0
QB 150	1050	0.9	1/75	CFM	158	152	149	143	134	126	102	67	18		4.3
QB 200	1550	1.4	1/25	CFM	201	196	193	190	186	182	172	160	145		5.3

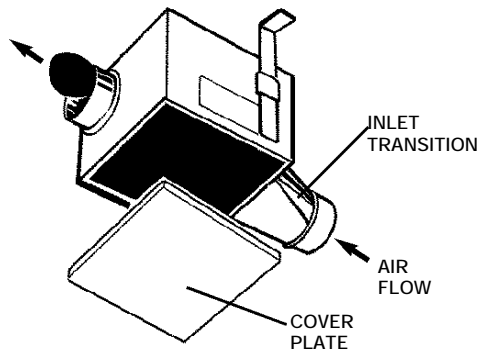
# Challenger Series

Models CF-225, CF-375, CF-425



## CHALLENGER IN-LINE INSTALLATION FOR QB CF SERIES

MODEL	A	B	PIPE
CF225	3.5	11.5	5" dia.
CF375	4	13	6" dia.
CF425	5	13	7" dia.



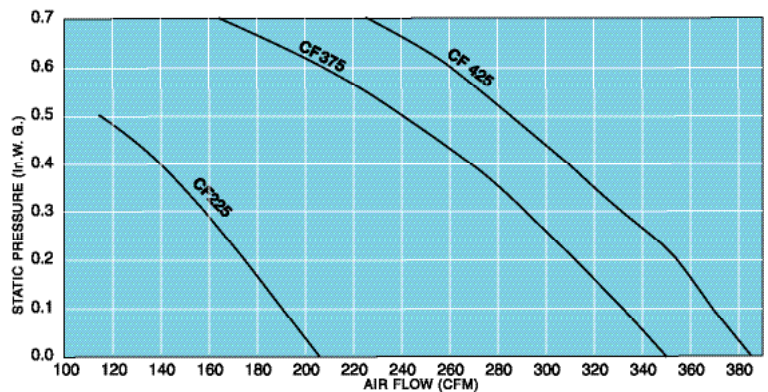
This fan can be converted to in-line installation simply by replacing grille with cover plate and installing inlet transition.

### STANDARD

- WHITE ALUMINUM LOUVRED GRILLE
- CONTINUOUS DUTY LIFE TIME LUBRICATED MOTOR WITH THERMAL PROTECTION
- GALVANIZED METAL FORWARD CURVED BLOWER WHEEL
- ALUMINUM DAMPER
- UNIVERSAL MOUNTING BRACKETS
- NEOPRENE VIBRATION ISOLATOR
- INSULATED CABINET

### OPTIONAL

- OFF WHITE ALUMINUM LOUVRED GRILLE
- IN-LINE ADAPTER KIT
- EXHAUST TRANSITION
- SPEED CONTROLLER
- TERMINATION KIT
- BUILT IN FIRE RADIATION DAMPER



## PERFORMANCE CHART CHALLENGER SERIES

MODEL	RPM	AMPS	H.P.	S.P.	0.00	0.10	0.125	0.20	0.25	0.30	0.40	0.50	0.60	0.70	SONES
CF 225	1600	1.4	1/25	CFM	205	190	182	174	166	158	140	115			4.5
CF 375	1600	2.87	1/10	CFM	350	333	323	314	303	292	269	240	206	163	5.5
CF 425	1600	2.87	1/10	CFM	385	370	362	355	343	332	310	285	260	225	6.0

# Challenger Slim-Line Series

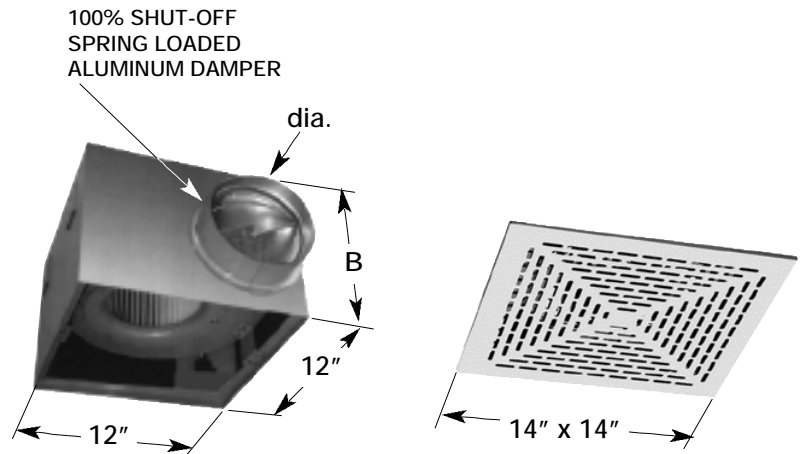
Models CFS-150, CFS-250, CFS-350



CFS models represent our SLIM-LINE range of fans offering low profile installation while moving large quantities of air.

All CFS fan motors are installed out of air stream reducing internal air flow resistance which results in considerable noise reduction.

MODEL	B	DIA.
CFS-150	8.25	5"
CFS-250	8.25	5"
CFS-350	9.0	6"



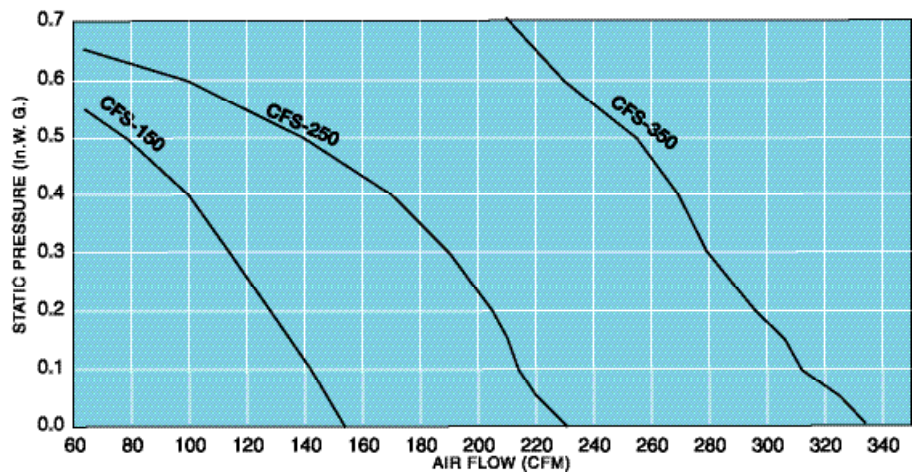
## STANDARD

- WHITE PERFORATED GRILLE
- CONTINUOUS DUTY LIFE TIME LUBRICATED MOTOR WITH THERMAL PROTECTION
- GALVANIZED METAL FORWARD CURVED BLOWER WHEEL
- SPRING LOADED ALUMINUM DAMPER
- UNIVERSAL MOUNTING BRACKETS
- NEOPRENE VIBRATION ISOLATOR
- INSULATED CABINET

## OPTIONAL

- SPEED CONTROLLER
- TERMINATION KIT
- BUILT IN FIRE RADIATION DAMPER

## FAN CURVES



## PERFORMANCE CHART - Not designed for in-line installation

MODEL	RPM	AMPS	H.P.	S.P.	0.00	0.10	0.125	0.20	0.25	0.30	0.40	0.50	0.60	0.70	SONES
CFS 150	1100	1.0	1/40	CFM	154	142	138	129	122	115	100	78			2.5
CFS 250	1550	1.3	1/25	CFM	230	215	212	205	197	190	170	140	100	40	3.0
CFS 350	1550	2.7	1/10	CFM	335	315	310	295	287	280	270	255	230	210	3.5