

Introduction: KQFS-FA

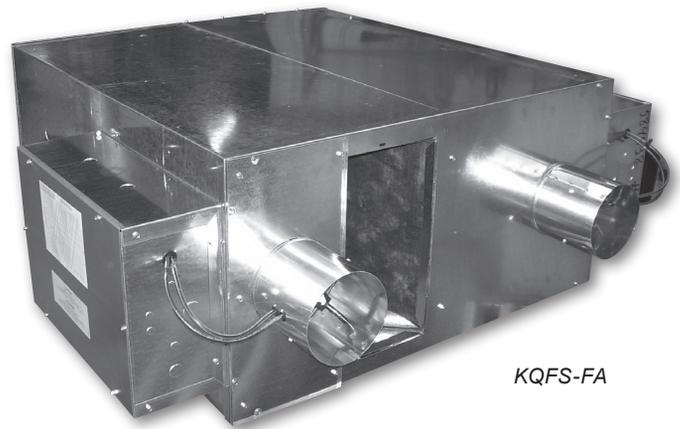
Providing adequate fresh air into a zone has become an important aspect for today's designs. With this in mind, Krueger designed the KQFS-FA, which offers a dedicated fresh air inlet on a series fan powered terminal unit. The primary air inlet is connected to a standard air handler to handle the cooling load in that space. A DOAS air handler supplies the fresh air inlet of the KQFS-FA to ensure that the proper ventilation rates are being met for the space. Adding a second pressure independent fresh air inlet to the KQFS-FA provides a simple way to meet the minimum ventilation rates in Table 6.1 of ASHRAE Standard 62.

MODEL

KQFS-FA - Ultra Quiet, Series Type Fan Powered Terminal Unit with Fresh Air Inlet

FEATURES

- Ultra quiet operation for critical sound applications.
- Airflow capacities up to 3000 CFM, providing airflow control for commercial applications.
- 20 gage galvanized steel casing construction provides advantages in acoustics, quality, unit strength, and product durability.
- Several types of casing liner options provide quiet and clean operation.
- Round inlet sizes ranging from 6" to 16" diameter are sized to fit standard spiral and flex duct for quick installation.
- Additional Fresh Air Inlet for outside air with available inlet sizes 4" to 8" diameter sized to fit standard spiral and flex duct for quick installation.
- Each unit size offers multiple primary inlet sizes to allow for flexible system design.
- Four quadrant, center averaging inlet airflow sensor provided in primary and fresh air inlets.
- Fully removable bottom access panel included with each unit for easy access to internal components for maintenance.
- Integral induced air attenuator; bolt-on attenuator not required.
- Two control enclosures located on each side for easy installation.
- Single point electrical connection minimizes the number of ceiling plenum electrical connections.
- Recirculation multi-voltage fan motors are quiet, reliable, and permanently lubricated; ECM motors are available.
- Electronic speed control (SCR) allows field adjustable fan airflow.
- Isolated motor/blower assembly limits casing acoustical transmission.
- ETL listings under UL 1995 electrical safety.
- External filter option for quick access and routine replacement.
- Auxiliary heat offers a wide range of options, including electric and hot water heat.
- Digital controls can be customized for many building systems.
- LineaHeat solid state electronic proportional control of electric heat is available with or without leaving air temperature control.
- AC solid state relays offer silent operation for staged electric heat.
- Revit models are available at www.krueger-hvac.com/revit.



KQFS-FA

FAN POWERED TERMINAL UNITS

KQFS-FA Airflow Ranges

KQFS-FA, AVAILABLE SIZES

Unit Size	Primary Inlet Sizes	Fresh Air Inlet
2	6, 8	4, 5, 6
3	6, 8, 10, 12	4, 5, 6
4	8, 10, 12	4, 5, 6, 7, 8
5	10, 12, 14	6, 7, 8
6	10, 12, 14, 16	6, 7, 8
7	10, 12, 14, 16	6, 7, 8

KQFS-FA, INLET CAPACITIES

Inlet Size	Max Primary CFM	Max Fresh Air CFM
4	-	230
5	-	360
6	515	515
7	700	700
8	920	920
10	1430	-
12	2060	-
14	2800	-
16	3660	-