

York Air Systems Presents

YSF- York Stack Fan

Advanced Direct Drive Plenum Fan

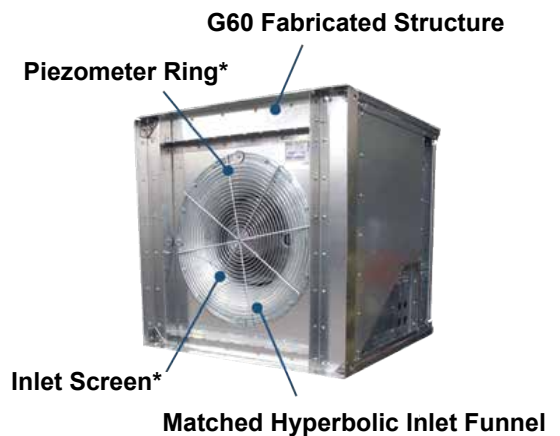
With the York Stack Fan, fan retrofits can be performed at a fraction of the cost. No longer are cranes and major construction costs required to perform a fan upgrade. Existing fans can be disassembled and removed, while new lightweight small stack fans are brought in through existing elevators and or door ways. Most fan arrays will meet "n+1" configuration allowing for zero system performance loss if one fan goes down. Snapped belts and loss of system air flow are problems of the past with fan array technology.

Key system Features

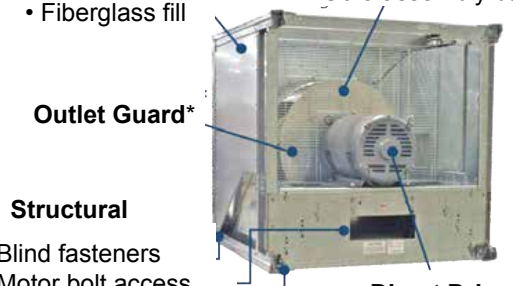
- Static Pressures up to 10" wc
- Flow rates from 250 CFM to 200,000 CFM
- Industry Best Vibration Performance
 - Assembly balanced to G6.3. No resonant conditions throughout full operating range.
- Robotically Welded Aluminum Airfoil Wheel
 - 9 and 12 blade wheel configurations
 - 80%, 100%, and 120% wheel widths

Applications

- Retrofit Applications
- High performance VAV systems
- Air Handlers
- Rooftop units
- General supply and return exhaust
- Telecom data centers
- Clean rooms
- Commercial Facilities
- Hospitals & Healthcare facilities
- Universities & Schools



- Acoustic Panels***
- 2" thick
 - Perforated sheet
 - Fiberglass fill
- Aluminum Impeller**
- Extruded blades
 - Multiple width options
 - Robotically welded
 - G6.3 assembly balance



- Blind fasteners
- Motor bolt access
- Array interlocking points

Optional*

Direct Drive

- No belt losses
- No maintenance
- Wide motor selection

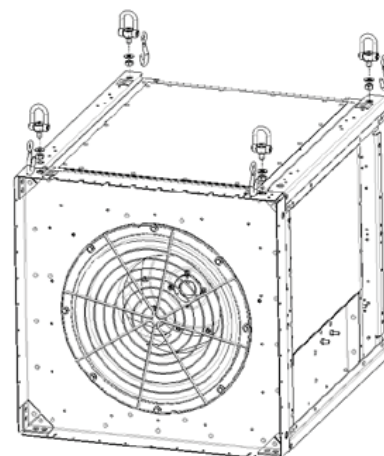


YSF DIMENSIONAL DATA

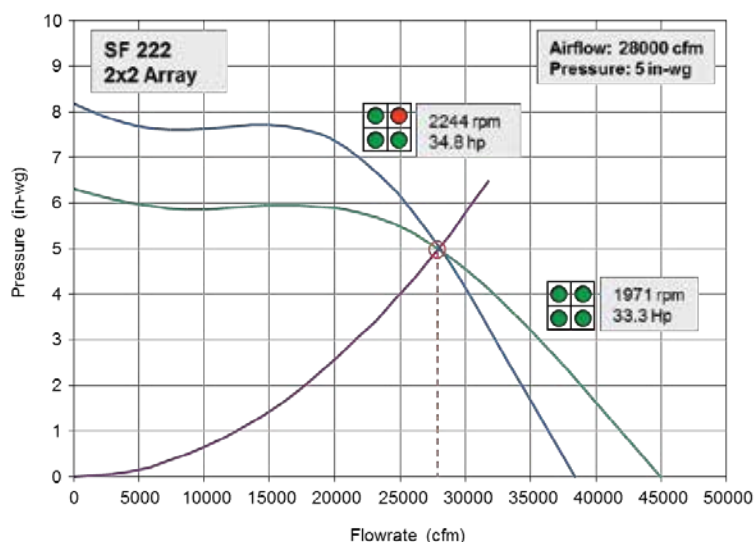
WHEEL SIZE	HOUSING DIMENSIONS			MAX STACKED CUBES **	MAX MOTOR FRAME SIZE
	WIDTH (W)	HEIGHT (H)	DEPTH (D)*		
10	20.03	18.79	24.56	4	184T
12	22.66	20.89	25.81	4	184T
13	24.53	22.4	28.06	4	213T
15	26.78	24.2	30.63	3	215T
16	29.03	25.75	35.31	3	254T
18	30.41	30.00	36.77	3	256T
20	33.75	34.00	37.85	3	284T
22	37.41	37.10	39.19	2	284T
25	41.43	41.00	40.57	2	284T

* Cabinet dimension only. Overall length including motor will vary based on motor type, size, and manufacturer.

**Recommended max stacked cubes based on max hp. Higher stacks are possible with smaller hp-contact PennBarry engineering.



Example: 2X2 Efficient Silent Array™ with system redundancy.



REDUNDANCY / RELIABLE

Redundancy ensures system performance, even when a fan in the array is taken out of service.

REDUCED MAINTENANCE COSTS

Direct drive configuration eliminates bearings, belts, and pulleys, significantly reducing maintenance costs. Motor base has been optimized to reduce both material costs and weight.

If for any reason a single fan in the array is taken out of service, the remaining fans in the array can effectively compensate ensuring the system operating point is maintained.

York Air Systems Now Offers

- EcoAdvanced
- Chilled Beams
- Filters
- Energy Recovery Ventilators
- Under Floor Controls
- Fans



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