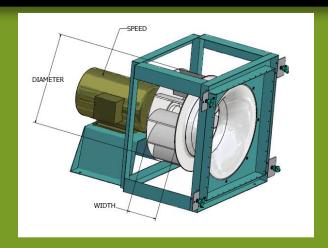


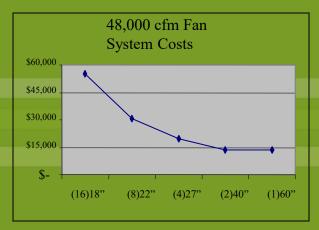
Direct Drive Fans In Air Handling Systems



Direct-Drive Plenum Fans In Air Systems







Advantages of DDP Fans

Increased Energy Efficiency

Lower System Static Pressure

- eliminates high static duct elbows and fittings
- lessens size and need for duct silencers
- significant improvement in discharge flexibility

Reduce Air Handling Length

Lower Sound Levels

Smaller Fans & Motors – Serviceability

Less Mechanical Complexity

- no belts, bearings, sheaves

Less Maintenance

Redundancy

"Low-Stall" VAV Part-Load Operation

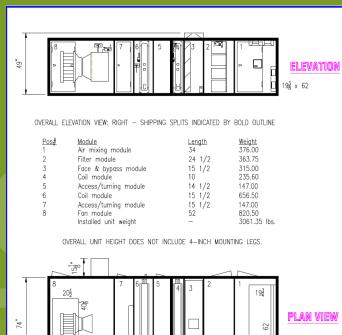
Dual fans can have advantages over single fans. If two fans are better than one why not three, four, or more?



Single Fan Projects







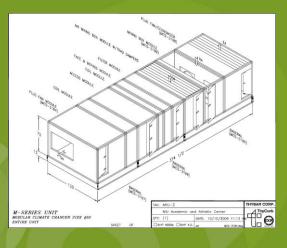
JOB: RIDGEWOOD HIGH SCHOOL GYM					
DESCRIPTION: AHU-2, 5, 6		SNC			
NOTES: -		IS(2	11/21/08	ments and Settings\Eric\My Documents\Tengent\Tangent lage\Tangent-forC
DRAWN BY: EFK	SCALE: N/A	Æ	-1	9/29/08	
FILE NAME: 0011-RIDGEWOODGYM.DWG DATE: 8/12/08		1	NO.	DATE	



Dual Fan Projects





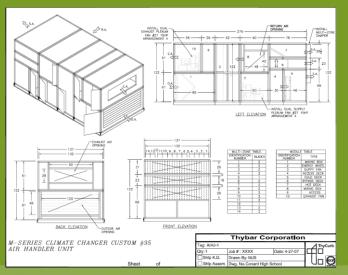








Dual Fan Projects











Four Fan Projects



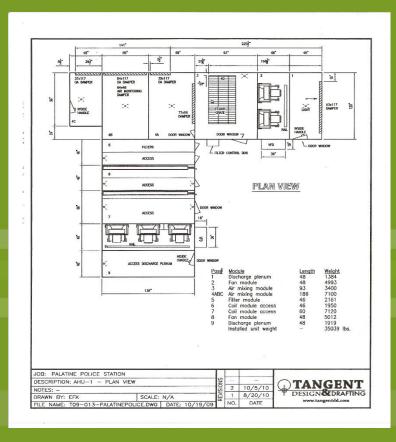








Six Fan Projects



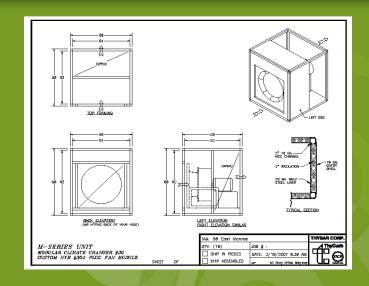


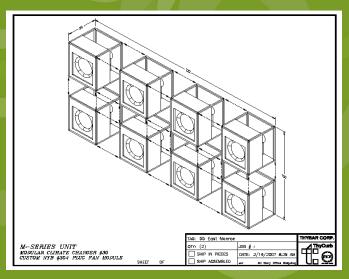


Applications For Existing Air Systems

Retrofit Market with Cube Fans

- For replacement of existing fans in existing AHU housings
- Fan selections (size & quantity) based on installation accessibility
- New reduced fan footprint allows for addition of new elements in existing casing
 - Filters
 - Humidifiers
- Offers all the advantages of a multiple fan system





Vane Axial Retrofit with Cube Fans



- Retrofit Market for Vane Axial Fans
- For replacement of existing vane axial fans and sound attenuators in built up systems
- Cube fan selections (size and quantity) based on installation accessibility
- New fan footprint 75% shorter in length
- Additional space allows for addition of air blenders, humidifiers, UV lights, final filters
- System Changes reduces Total static pressure which lowers motor HP, and reduces sound
- Multiple fans gives system standby and backup for one fan failure



