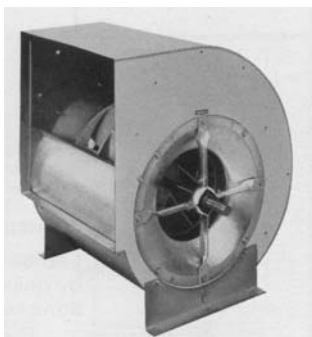
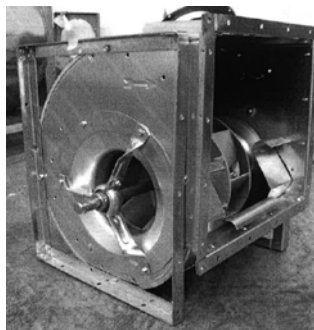


THLZ

**DOUBLE WIDE DOUBLE INLET HOUSED FAN
BACKWARD INCLINE
FIBERGLASS REINFORCED POLYAMIDE WHEEL (FRP)**



**B - BASIC VERSION NO
FRAME SPIDER BRACKET
BEARING (OPTIONAL FEET)**



**R - BENT STEEL GALVANIZED
FRAME AND SPIDER BRACKET
BEARINGS**



**T - STRUCTURAL STEEL
FRAME WITH PILLOW BLOCK
BEARINGS**



comefri

comefri Radial Fans

	Page
General information of the series THLZ	1
1.0 Fan Construction	1
2.0 Fan Accessories	2
3.0 Technical Explanation – Sound	4
4.0 Performance Curves	6
4.1 THLZ 180	7
4.2 THLZ 200	8
4.3 THLZ 225	9
4.4 THLZ 250	10
4.5 THLZ 280	11
4.6 THLZ 315	12
4.7 THLZ 355	13
4.8 THLZ 400	14
4.9 THLZ 450	15
5.0 Dimensions	16
5.1 THLZ Basic	16
5.2 THLZ “R” Style	17
5.3 THLZ “T” Style	18
5.4 Side Plates	19
5.5 Accessory Weights	19
6.0 Fan Discharge with Accessory Position	20
7.0 Ordering Information	20
8.0 Complete Assemblies	21

Note:

This catalogue has to be used only for pre-selections. A detailed selection is available from our AEOLUS PLUS selection program

comefri Radial Fans

THLZ Housed Fans – DWDI

THLZ radial fans have been designed specifically for heating, ventilation and air conditioning units. They offer the following advantages to the unit manufacturer:

- Compact design for space saving installations
- High efficiency operation for economic running costs
- Low operational noise levels and vibration free running
- Wide volume range and high pressure development
- Flexible applications and temperature range of -22°F to +176°F
- Standardized components sized in accordance with R20 DIN 323
- Superb quality
- Short delivery from stock warehouses
- Budget prices

1. Fan Construction



1.1 Casings

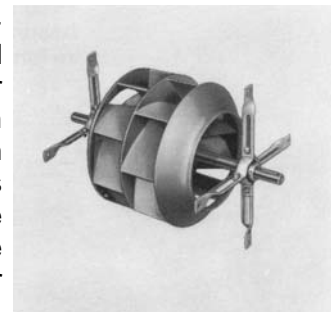
All fan casings are manufactured from high quality galvanized steel. The casings are manufactured with Pittsburgh seams as described above. This system gives great strength as well as ensuring leak proof joints. Predrilled holes are located in the side plates to take either feet or frames as accessories. These are supplied extra.

1.2 Fan Inlets

To ensure high efficiency, fans are supplied with aerodynamically shaped fan inlets. The inlet cones are separate pieces, bolted to the sideplate.

1.3 Impellers

THLZ fans are supplied with high efficiency non-overloading impellers having backward curved blades. The blade shape results from research at our test laboratory and is specially designed to give high volume and pressure characteristics at high efficiency. The Impellers are manufactured of glass reinforced polyamide material. Fan impellers are statically and dynamically balanced, in accordance with VDI 2060 and ISO 1940/1, grade G 6,3. Impeller diameters are in series R20 according to DIN 323.



1.4 Shafts

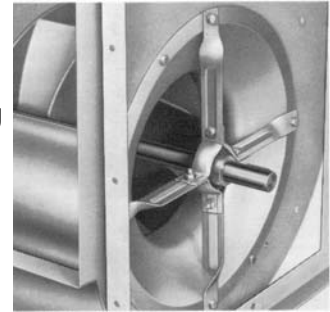
Shafts are manufactured from high quality steel, keyed at both ends and at the impeller location point.

1.5 Bearings

All fans are supplied as standard with pre-greased ball bearings. These are always inspected prior to assembly to ensure quiet running. Bearings have an L₁₀ life of 20,000 HRS at peak performance. Limiting values for speed and power are indicated on the characteristic curves and should not be exceeded. Pulleys should be mounted close to the fan bearing. The various bearing types are described as follows.

Series THLZ “B” and “R”

Sealed-for-life bearings are located in formed support arms made from galvanized steel. The bearing is mounted inside a unique rubber anti-vibration housing which provides for sound insulation and smooth running.



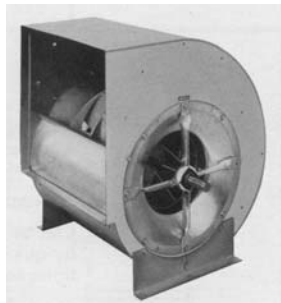
Series THLZ “T”

Pillow blocks containing self aligning ball bearings are used in this range. The bearing being mounted onto the substantial fan frame (Pic 10).



2. Accessories

All fans can be supplied with the following accessories (sold separately):

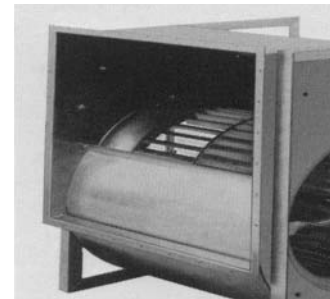


2.1 Feet ...F

Manufactured from galvanized sheet steel. The housing and the feet are predrilled for any discharge orientation.

2.2 Outlet Flanges ...A

Manufactured from galvanized steel and drilled per the dimension sheets (section 5.0).



2.3 Inspection door

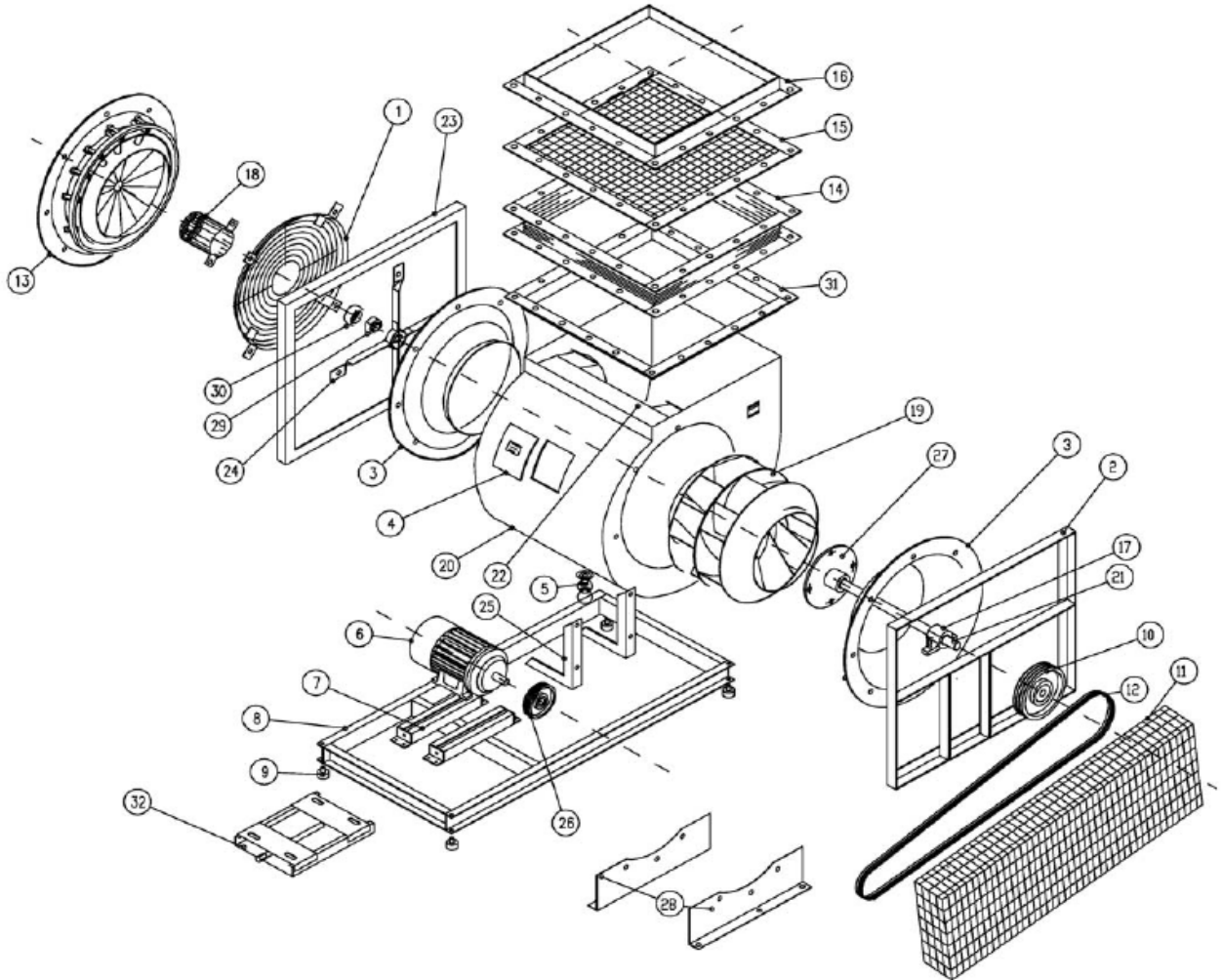
Can be fitted to the fan casing and consist in a galvanized steel plate fixed by quick release screws. Gaskets prevent leakage. See section 6.0 for defining position of installation.

2.4 Drain Plugs

Can be fitted at lowest point of the fan casing to drain condensation. Plugs are 3/8" gas thread. See section 6.0 for defining position of installation.



THLZ - EXPLODED ILLUSTRATION VERSIONS AND ACCESSORIES



1 - INLET GUARD	17 - BEARING
2 - T FRAME	18 - SHAFT GUARD
3 - INLET CONE	19 - WHEEL
4 - INSPECTION DOOR	20 - HOUSING
5 - DRAIN PLUG	21 - SHAFT
6 - MOTOR	22 - CUT OFF
7 - MOTOR RAILS	23 - R FRAME
8 - BASE FRAME	24 - BEARING BRACKET
9 - ANTIVIBRATION MOUNTING	25 - GUARD MOUNT
10 - FAN PULLEY	26 - MOTOR PULLEY
11 - BELT GUARD	27 - HUB
12 - BELTS	28 - FEET
13 - INLET VANE CONTROL	29 - BEARING
14 - OUTLET FLEXIBLE CONNECTION	30 - RUBBER BUSH
15 - OUTLET GUARD	31 - OUTLET FLANGE
16 - OUTLET COUNTERFLANGE	32 - MOTOR BASE PLATE

3. Technical Explanations

3.1 General

The SI-units used in this catalogue correspond to the standards DIN 1301, DIN 1345, DIN 45635 and to the Eurovent - Recommendations 0/1 and 1/1.

3.2 Sound Levels

The measurement of noise levels are taken according to DIN 45635. For this purpose a harmonic analyzer type 2107 and Hertz-Octave Band Filter type 1615 of Messrs. Brüel + Kjaer are used. These precision measuring instruments comply with DIN 45633. The sound power level L_W , referred to $W_0 = 10^{-12}$ watt, required for calculation and design of sound absorbing units is marked in the performance curves.

L_W	- Total Sound Power Level	[dB]
L_W^*	- Sound Power Level at a specific Octave Band Mid-Frequency	[dB]
L_P	- Sound Pressure Level (non-weighted)	[dB]
L_P^*	- Sound Pressure Level at a specific Octave Band Mid-Frequency	[dB]
L_{PA}	- Sound Pressure Level (weighted)	[dB(A)]
f_m	- Octave Band Mid-Frequency	[Hz]
Δ_L	- Difference between the Total Sound Power Level L_W and the non-weighted Sound Pressure Level L_P	[dB]
ΔL_W	- Difference between the Total Sound Power Level L_W and the measured value at the corresponding Octave Band Mid-Frequency	[dB]
ΔL_A	- Difference between the Total Sound Power Level L_W and the weighted Sound Pressure Level L_{PA}	[dB]

The Sound Data of the fans is determined as follows:

1. Total Sound Power Level can be ascertained from the Performance Curves.
2. The Sound Power Level L_W^* at the different Octave Band Mid-Frequencies is determined from following equation:

$$L_W^* = L_W - \Delta L_W$$

The values for ΔL_W are given in Table 1.

Table 1:

Octave Band Mid-Frequency f_m Hz	63	125	250	500	1000	2000	4000	8000
ΔL_W [dB] for THLZ	4	6	7	9	11	15	19	23

3. The non weighted Sound Pressure Level L_P of for all fan sizes at various measuring distances is obtained from the following equation:

$$L_P = L_W - \Delta L$$

The values for ΔL are given in Table 2.

Table 2:

Distance from the fan	1 m	2 m	3 m	4 m	5 m
ΔL [dB]	6	12	15	18	20

4. The Sound Pressure level L_p^* at the different Octave Band Mid-Frequencies is obtained from the following equation:

$$L_p^* = L_p - \Delta L_W$$

The values for $\Delta L_W - \Delta L_A$ are given in Table 1.

5. The weighted Sound Pressure Level L_{PA} dB(A) is determined by the following equation:

$$L_{PA} = L_W - \Delta L_A$$

The values for ΔL_A are given in Table 3.

Table 3:

Fan size		160	180	200	225	250	280	315	355	400	450						
ΔL_A at a distance of	1 m	10	10	10	11	11	11	11	12	12	12						
	2 m	16	16	16	17	17	17	17	18	18	18						
	3 m	19	19	19	20	20	20	20	21	21	21						
	4 m	22	22	22	23	23	23	23	24	24	24						
	5 m	24	24	24	25	25	25	25	26	26	26						

Please note that exact data regarding sound volume and frequency can only be determined after assembly and operation at the place of installation as the acoustic properties of the room, inherent frequencies as well as other oscillations and the effect of adjacent structures may considerably affect the sound level.

3.3 Performance Curves of the COMEFRI Fans

The fan data, which have been determined by tests in our laboratory, according to the latest recommendations and with high-precision measuring instruments, are contained in the following performance curves. They show the total pressure against the volume flow.

The curves indicate speed, circumferential velocity, power consumption at the shaft and Total Sound Power Level L_W .

Please note that the values indicated at the absciss, the dynamic pressure and the outlet velocity relate to the total cross section of the fan outlet.

4. Performance Charts

		Page
4.1	THLZ 180 (7)	9
4.2	THLZ 200 (8)	10
4.3	THLZ 225 (9)	11
4.4	THLZ 250 (10)	12
4.5	THLZ 280 (11)	13
4.6	THLZ 315 (12)	14
4.7	THLZ 355 (14)	15
4.8	THLZ 400 (16)	16
4.9	THLZ 450 (18)	17

CURRENT STOCK PROGRAM – 11-2009			
SIZE	B – BASIC	“R” STYLE	“T” STYLE
180 (7)	NO*	YES	NO*
200 (8)	NO*	YES	NO*
225 (9)	NO*	YES	YES
250 (10)	NO*	YES	YES
280 (11)	YES	YES	YES
315 (12)	NO*	YES	YES
355 (14)	NO*	YES	YES
400 (16)	NO*	YES	YES
450 (18)	NO*	YES	YES
* Contact Factory – Able to Stock as Necessary			

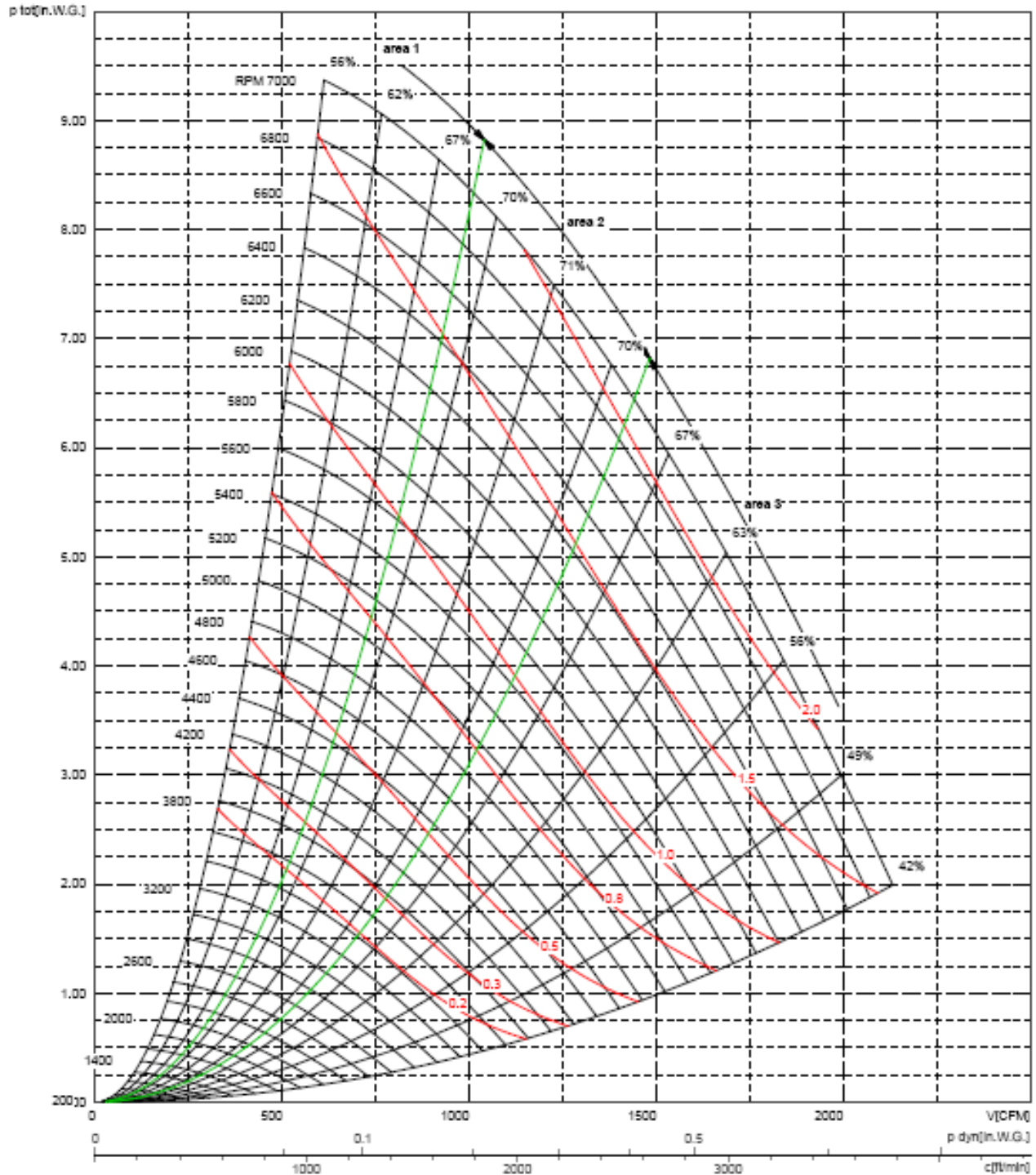
comefri



4.1 - THLZ Radial Fan

Backward Curved
DWDI – FRP

THLZ 180 (7)		B	R	T
FAN MAX RPM		7,000		
FAN MAX BHP		4.0		
FAN OUTLET AREA (ft ²)		0.5645		
WHEEL DIAMETER (in)		7.09		
WHEEL WIDTH (in)		9.02		
WHEEL BLADES (#)		8		
MOMENT INERTIA (lb ft ²)		0.12		



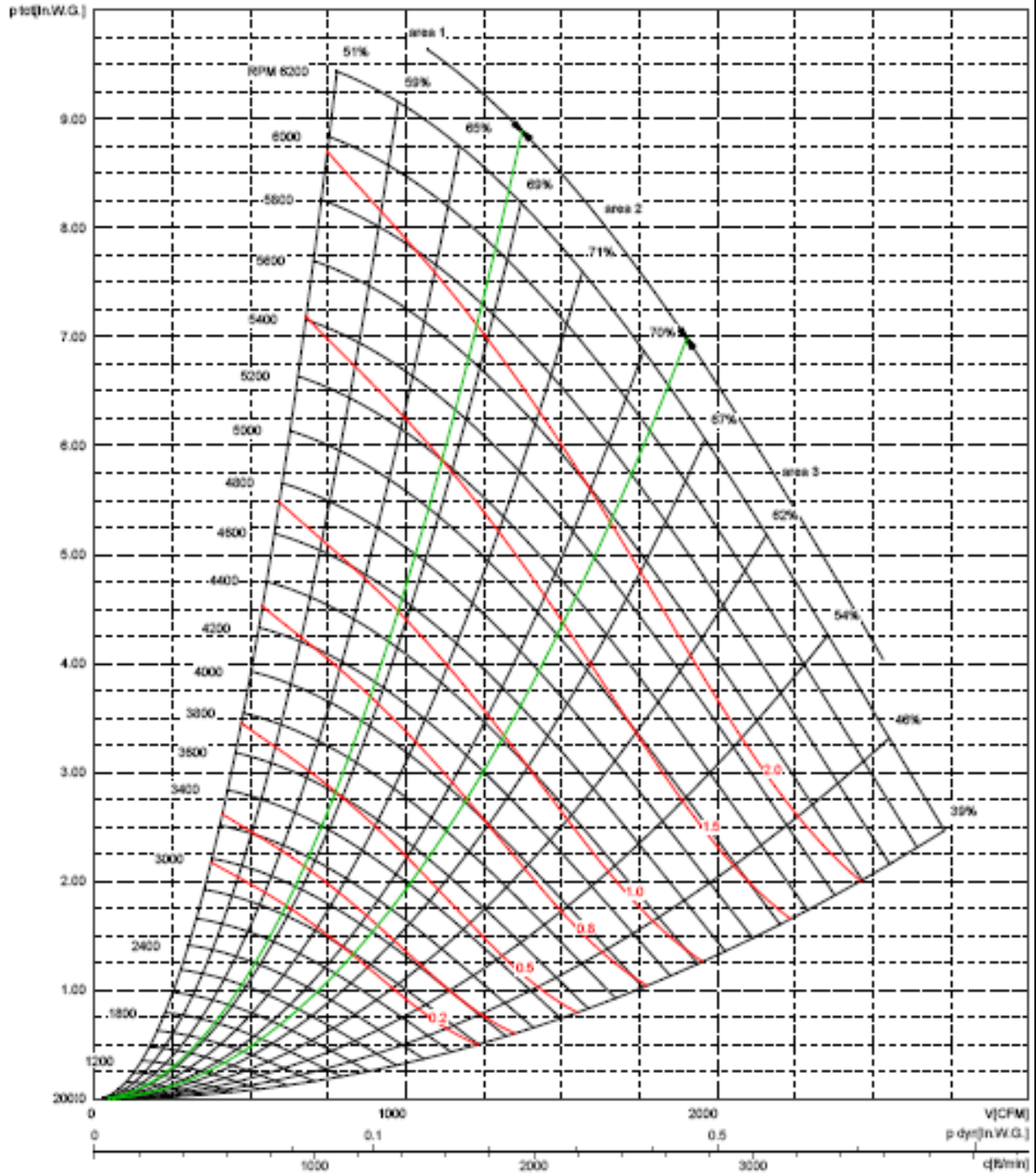
comefri



4.2 – THLZ Radial Fan

Backward Curved
DWDI – FRP

THLZ 200 (8)	B	R	T
FAN MAX RPM	6200		
FAN MAX BHP	4.69		
FAN OUTLET AREA (ft ²)	0.7054		
WHEEL DIAMETER (in)	7.874		
WHEEL WIDTH (in)	10.078		
WHEEL BLADES (#)	8		
MOMENT INERTIA (lb ft ²)	0.24		



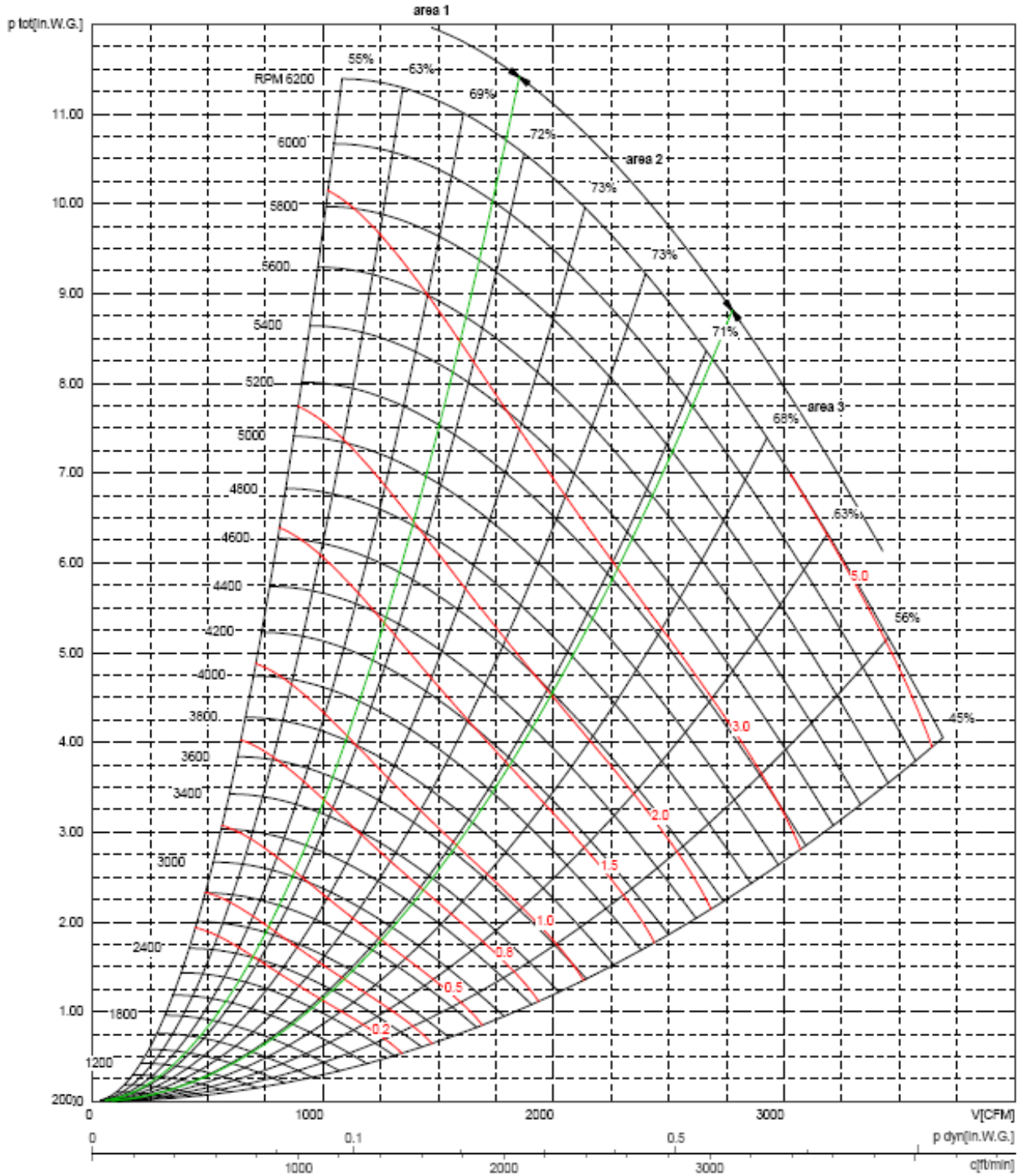
comefri



4.3 - THLZ Radial Fan

Backward Curved
DWDI – FRP

THLZ 225 (9)	B	R	T
FAN MAX RPM	6200		
FAN MAX BHP	5.36		
FAN OUTLET AREA (ft ²)	0.8929		
WHEEL DIAMETER (in)	8.858		
WHEEL WIDTH (in)	11.339		
WHEEL BLADES (#)	8		
MOMENT INERTIA (lb ft ²)	0.33		



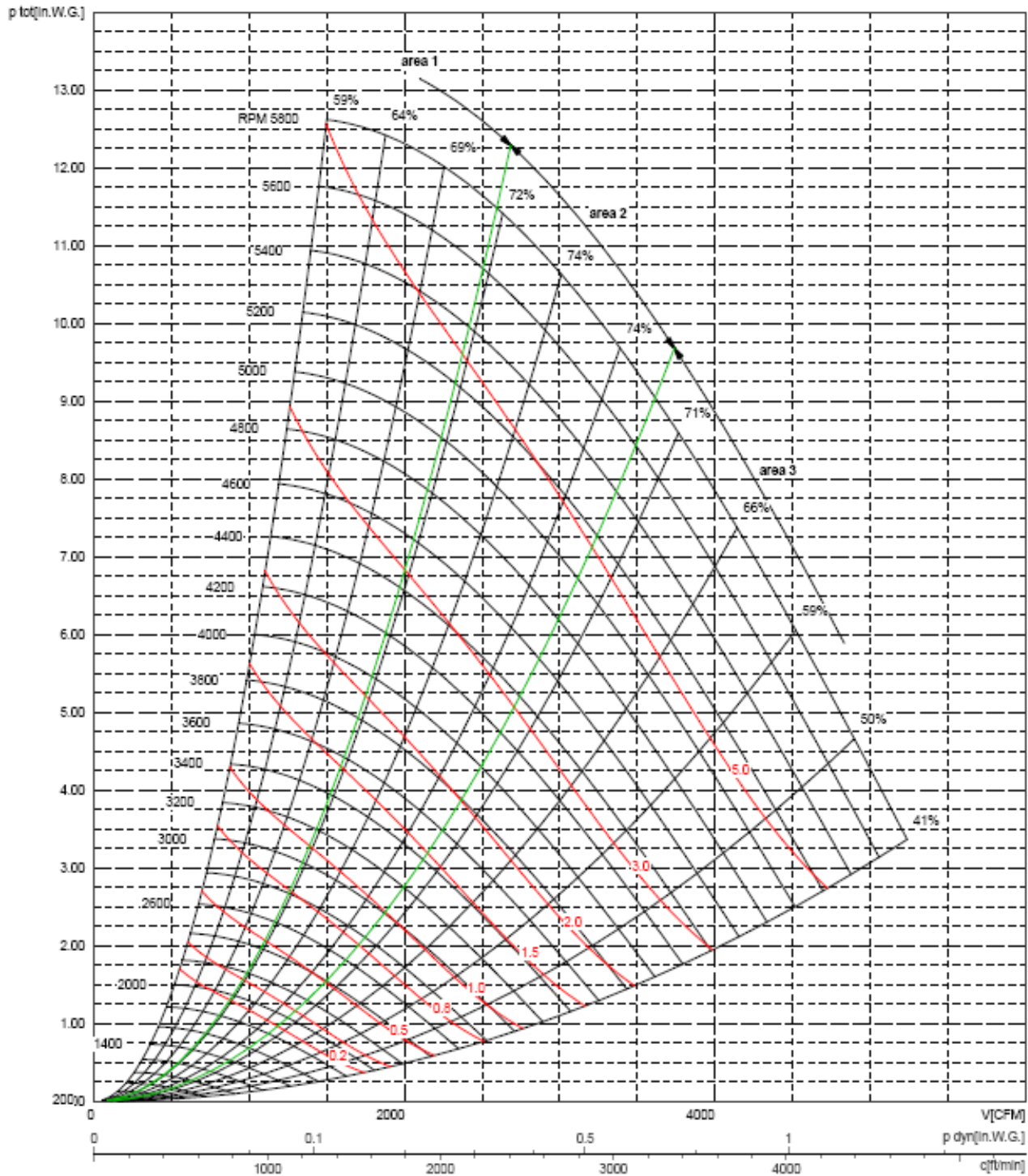
comefri



4.4 - THLZ Radial Fan

Backward Curved
DWDI – FRP

THLZ 250 (10)	B	R	T
FAN MAX RPM	5800		
FAN MAX BHP	6.71		
FAN OUTLET AREA (ft ²)	1.116		
WHEEL DIAMETER (in)	9.843		
WHEEL WIDTH (in)	12.677		
WHEEL BLADES (#)	8		
MOMENT INERTIA (lb ft ²)	0.47		



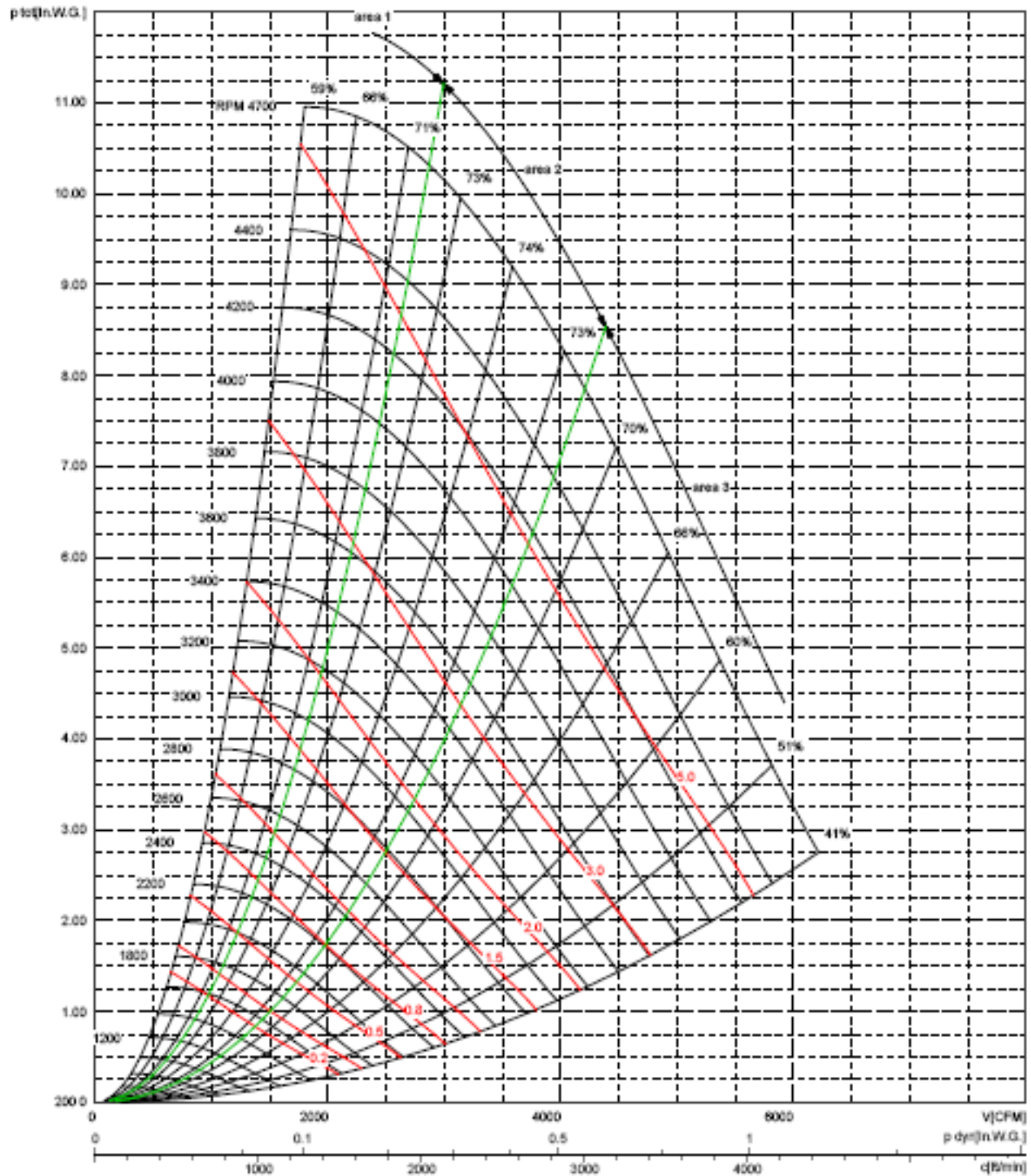
comefri



4.5 - THLZ Radial Fan

Backward Curved
DWDI – FRP

THLZ 280 (11)	B	R	T
FAN MAX RPM	4700		
FAN MAX BHP	6.97		
FAN OUTLET AREA (ft ²)	1.4028		
WHEEL DIAMETER (in)	11.024		
WHEEL WIDTH (in)	14.213		
WHEEL BLADES (#)	8		
MOMENT INERTIA (lb ft ²)	0.81		



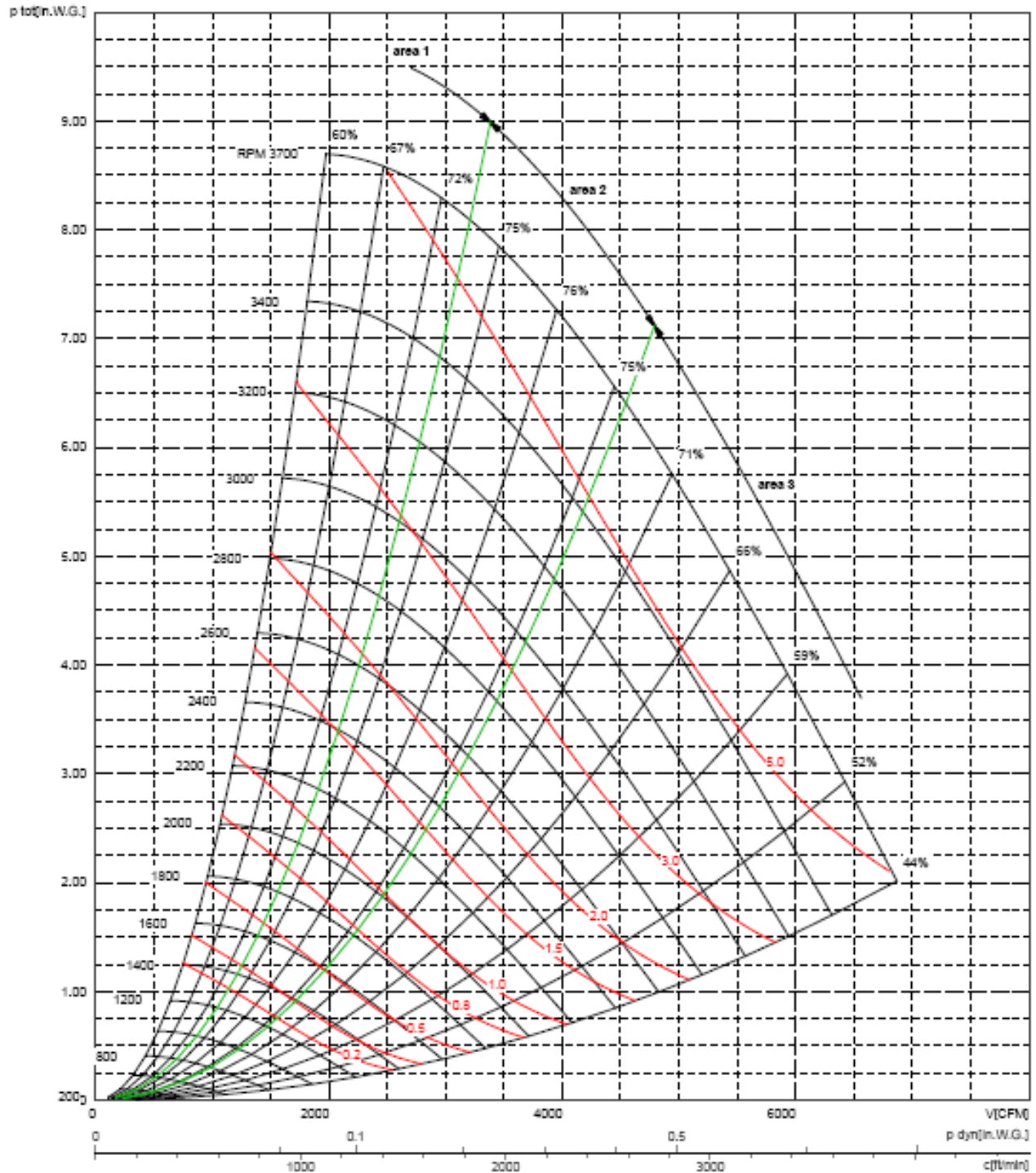
comefri



4.6 - THLZ Radial Fan

Backward Curved
DWDI – FRP

THLZ 315 (12)	B	R	T
FAN MAX RPM	3700		
FAN MAX BHP	7.51		
FAN OUTLET AREA (ft ²)	1.752		
WHEEL DIAMETER (in)	12.402		
WHEEL WIDTH (in)	15.906		
WHEEL BLADES (#)	8		
MOMENT INERTIA (lb ft ²)	1.19		



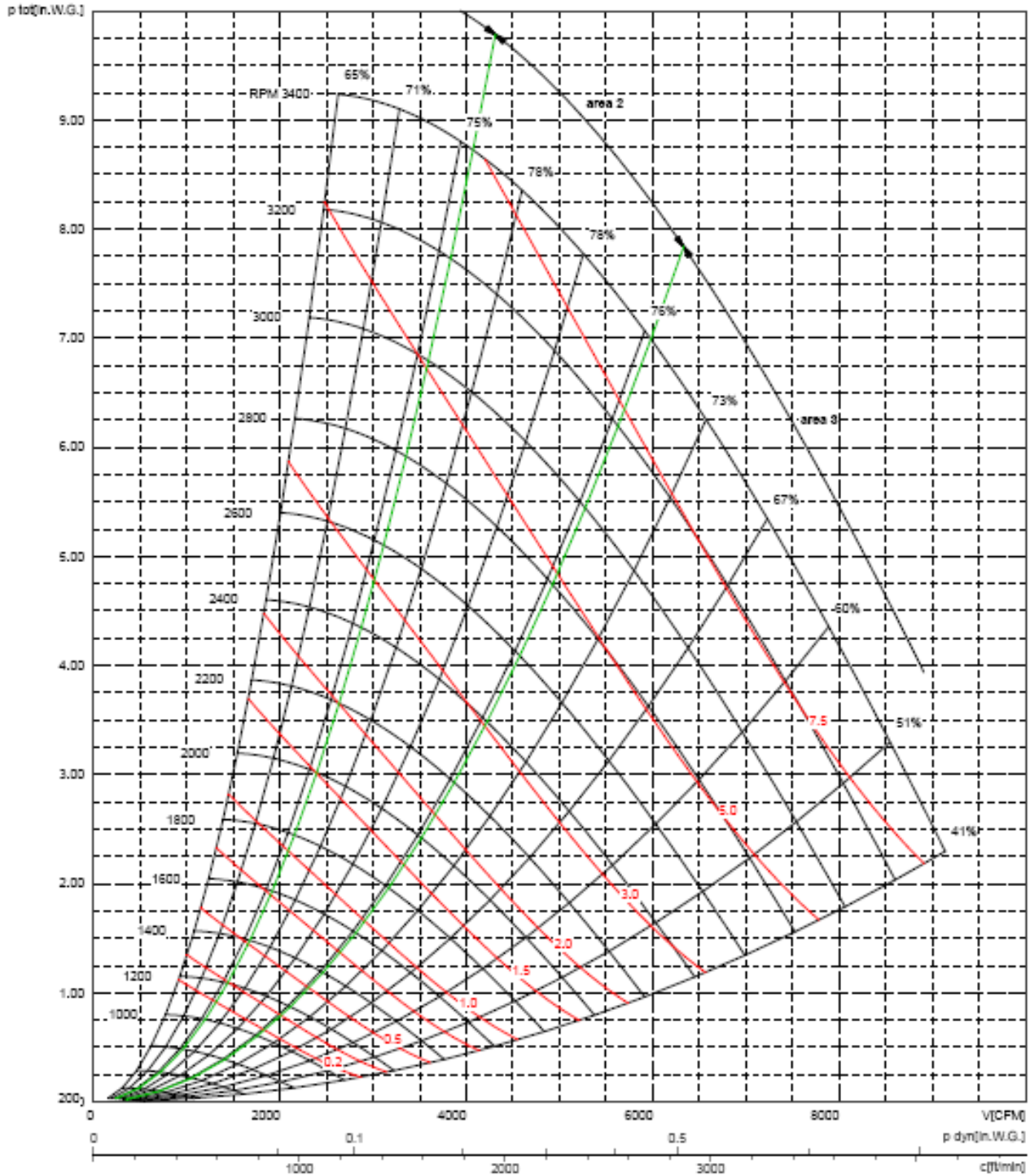
comefri



4.7 - THLZ Radial Fan

Backward Curved
DWDI – FRP

THLZ 355 (14)	B	R	T
FAN MAX RPM	3400		
FAN MAX BHP	9.39		
FAN OUTLET AREA (ft ²)	2.2089		
WHEEL DIAMETER (in)	13.976		
WHEEL WIDTH (in)	17.835		
WHEEL BLADES (#)	8		
MOMENT INERTIA (lb ft ²)	2.37		



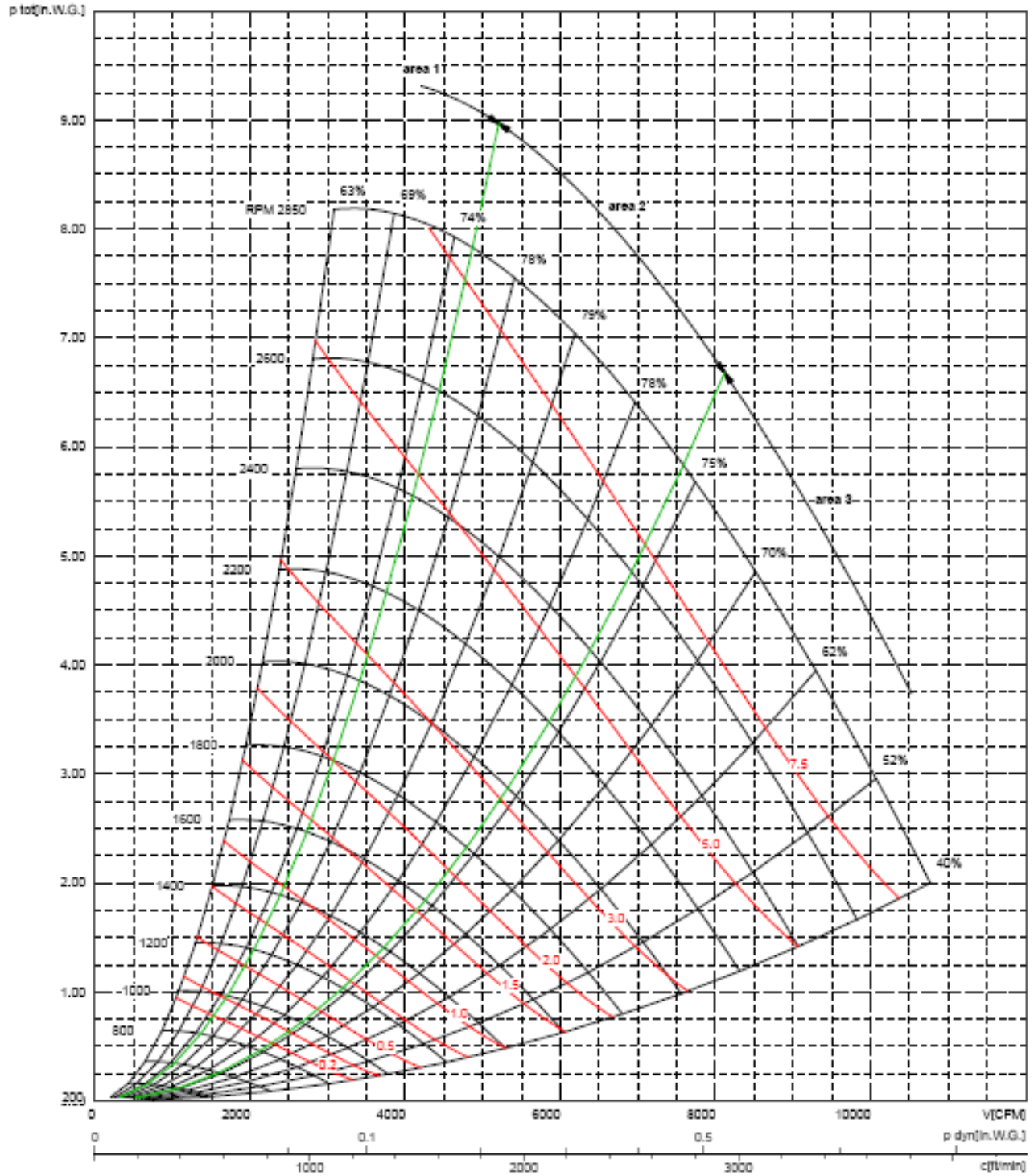
comefri



4.8 – THLZ Radial Fan

Backward Curved
DWDI – FRP

THLZ 400 (16)	B	R	T
FAN MAX RPM	2850		
FAN MAX BHP	10.06		
FAN OUTLET AREA (ft ²)	2.7669		
WHEEL DIAMETER (in)	15.748		
WHEEL WIDTH (in)	19.961		
WHEEL BLADES (#)	8		
MOMENT INERTIA (lb ft ²)	3.56		



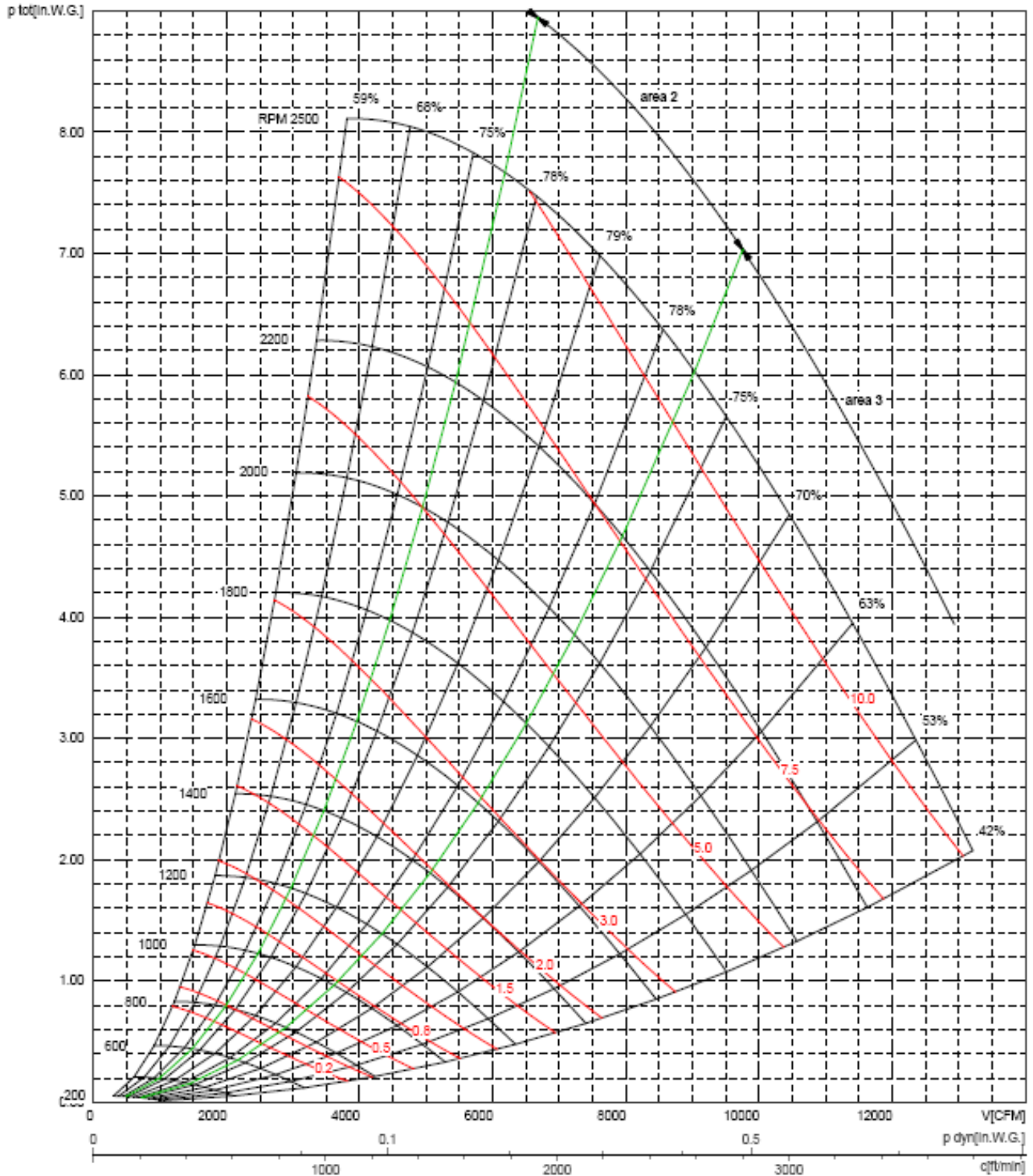
comefri



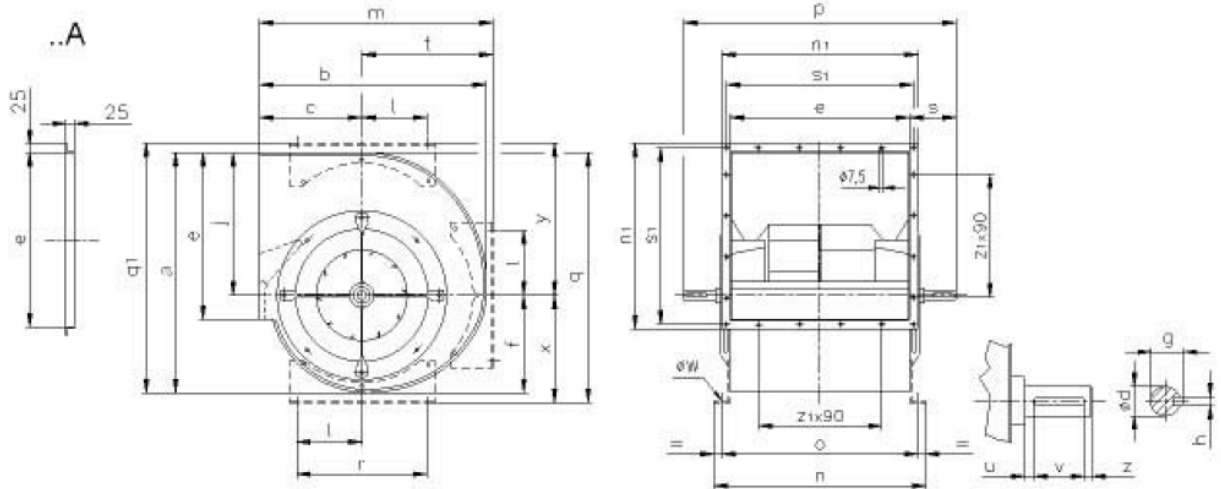
4.9 - THLZ Radial Fan

Backward Curved
DWDI – FRP

THLZ 450 (18)	B	R	T
FAN MAX RPM	2500		
FAN MAX BHP	10.73		
FAN OUTLET AREA (ft ²)	3.485		
WHEEL DIAMETER (in)	17.717		
WHEEL WIDTH (in)	22.402		
WHEEL BLADES (#)	8		
MOMENT INERTIA (lb ft ²)	7.83		



Radial Fan
THLZ 180 B to 450 B
 Dimensions and technical details



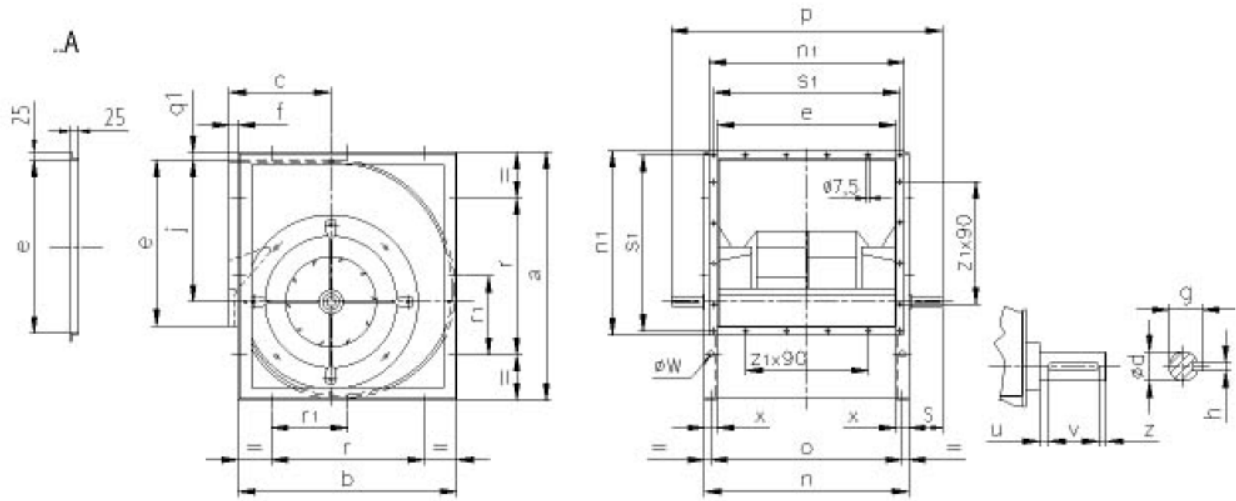
THLZ	a (")	b (")	c (")	Φd	e (")	f (")	g (")	h (")	j (")	l (")	m (")	n (")	n1 (")	o (")	p (")	q (")	q1 (")
180	12.91	12.32	6.02	20 mm	9.02	5.24	0.89	0.24	7.68	3.54	12.48	10.98	10.98	10.00	14.76	14.13	14.06
200	14.33	13.46	6.46	20 mm	10.08	5.83	0.89	0.24	8.50	4.41	13.70	12.05	12.05	11.06	15.94	15.63	15.47
225	16.10	14.96	7.09	20 mm	11.34	6.54	0.89	0.24	9.57	4.41	15.12	13.31	13.31	12.32	17.13	17.32	17.32
250	17.87	16.42	7.68	20 mm	12.68	7.24	0.89	0.24	10.63	4.41	16.61	14.65	14.65	13.66	18.50	18.90	19.02
280	20.04	18.27	8.46	25 mm	14.21	8.15	1.10	0.31	11.89	5.51	18.39	16.57	16.18	15.39	21.26	21.06	21.06
315	22.56	20.31	9.29	25 mm	15.91	9.17	1.10	0.31	13.43	5.51	20.31	18.27	17.87	17.09	23.03	23.62	30.35
355	25.43	22.68	10.28	30 mm	17.83	10.31	1.30	0.31	15.12	6.99	22.87	20.98	19.80	19.41	25.79	25.87	26.46
400	28.58	25.39	11.46	30 mm	19.96	11.65	1.30	0.31	17.01	6.99	25.55	23.11	21.93	21.54	27.91	28.86	29.80
450	32.20	28.43	12.68	35 mm	22.40	13.07	1.50	0.39	19.13	8.86	28.70	25.55	24.37	23.98	31.89	32.40	33.46

THLZ	r (")	s (")	s1 (")	t (")	u (")	v (")	z (")	x (")	Y (")	Φw(mm)	z1 (")	Lbs	Z1 x t (In.)
180	7.09	2.87	10.20	6.46	0.28	1.18	0.20	6.46	8.82	7mm	0.08	13.2	0.08 x 3.54
200	8.82	2.91	11.26	7.24	0.20	1.18	0.20	7.13	9.65	7mm	0.08	15.6	0.08 x 3.54
225	8.82	2.91	12.52	8.03	0.20	1.18	0.20	7.76	10.79	7mm	0.12	18.5	0.12 x 3.54
250	8.82	2.91	13.86	8.94	0.24	1.18	0.20	8.27	11.77	7mm	0.12	22.0	0.12 x 3.54
280	11.02	3.54	15.39	9.92	0.16	1.57	0.20	9.17	12.91	10.5mm	0.12	29.7	0.12 x 3.54
315	11.02	3.54	17.09	11.02	0.20	1.57	0.20	10.16	14.45	10.5mm	0.16	39.6	0.16 x 3.54
355	13.98	3.98	19.02	12.56	0.28	1.57	0.39	10.75	16.14	10.5mm	0.16	52.8	0.16 x 3.54
400	13.98	3.98	21.14	14.09	0.28	1.57	0.39	11.85	18.15	10.5mm	0.20	63.8	0.20 x 3.54
450	17.72	4.76	23.58	16.02	0.43	1.97	0.39	13.27	20.43	12mm	0.24	82.5	0.24 x 3.54

comefri

Radial Fan
THLZ 180 R to 450 R
 Dimensions and technical details

Drawing
5.2



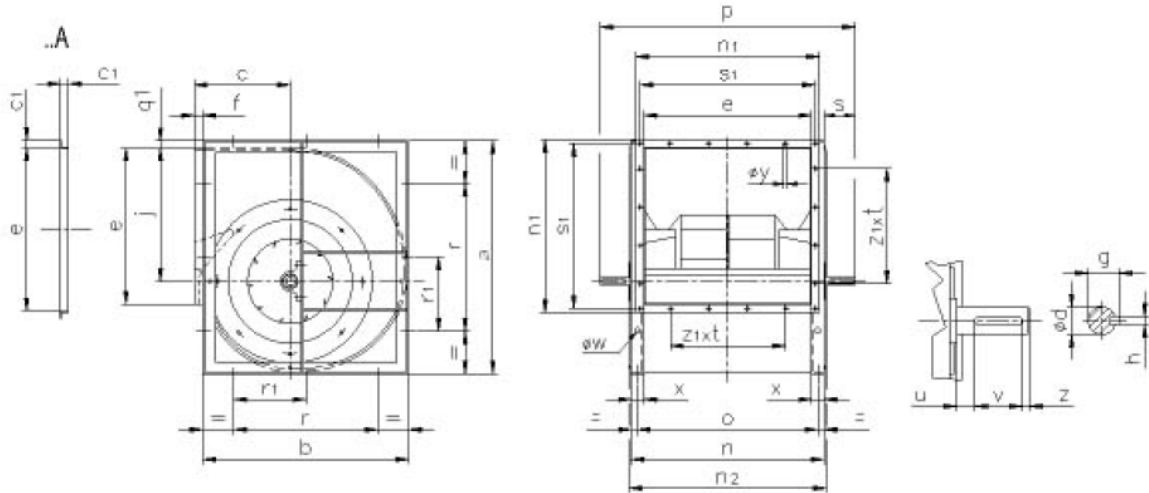
THLZ	a (")	b (")	c (")	Φd	e (")	f (")	g (")	h (")	j (")	n (")	n1 (")	o (")	p (")	r (")	s (")	s1 (")	u (")
180	13.31	11.26	6.02	20 mm	9.02	1.34	0.89	0.24	7.68	10.98	10.98	10.00	14.76	7.09	1.89	10.20	0.28
200	14.65	12.36	6.46	20 mm	10.08	1.22	0.89	0.24	8.50	12.05	12.05	11.06	15.94	8.82	1.97	11.26	0.20
225	16.38	13.70	7.09	20 mm	11.34	1.34	0.89	0.24	9.57	13.31	13.31	12.32	17.13	8.82	1.97	12.52	0.20
250	18.19	15.12	7.68	20 mm	12.68	1.42	0.89	0.24	10.63	14.65	14.65	13.66	18.50	8.82	1.93	13.86	0.24
280	20.39	17.01	8.46	25 mm	14.21	1.38	1.10	0.31	11.89	16.57	16.18	15.39	21.26	11.02	1.57	15.39	0.16
315	22.76	18.90	9.29	25 mm	15.91	1.54	1.10	0.31	13.43	18.27	17.87	17.09	23.03	11.02	2.40	17.09	0.20
355	25.79	21.34	10.28	30 mm	17.83	1.54	1.30	0.31	15.12	20.98	19.80	19.41	25.79	13.98	2.40	19.02	0.28
400	28.98	23.86	11.46	30 mm	19.96	1.77	1.30	0.31	17.01	23.11	21.93	21.54	27.91	13.98	2.40	21.14	0.28
450	32.60	26.54	12.68	35 mm	22.40	2.05	1.50	0.39	19.13	25.55	24.37	23.98	31.89	17.72	3.19	23.58	0.43

THLZ	v (")	z (")	x (")	q1 (")	Φw	z1 (")	r1 (")	Lbs									Z1 x t (In.)
180	1.18	0.20	0.98	0.20	7.5mm	0.08	-	17.4									0.08 x 3.54
200	1.18	0.20	0.98	0.16	8 mm	0.08	-	20.0									0.08 x 3.54
225	1.18	0.20	0.98	0.16	8 mm	0.12	-	23.1									0.12 x 3.54
250	1.18	0.20	0.98	0.16	8 mm	0.12	-	27.3									0.12 x 3.54
280	1.57	0.20	1.18	0.20	10 mm	0.12	-	36.8									0.12 x 3.54
315	1.57	0.20	1.18	0.12	10 mm	0.16	-	48.0									0.16 x 3.54
355	1.57	0.39	1.57	0.20	10 mm	0.16	-	68.2									0.16 x 3.54
400	1.57	0.39	1.57	0.16	10 mm	0.20	6.99	80.5									0.20 x 3.54
450	1.97	0.39	1.57	0.24	12 mm	0.24	8.86	101.4									0.24 x 3.54

comefri

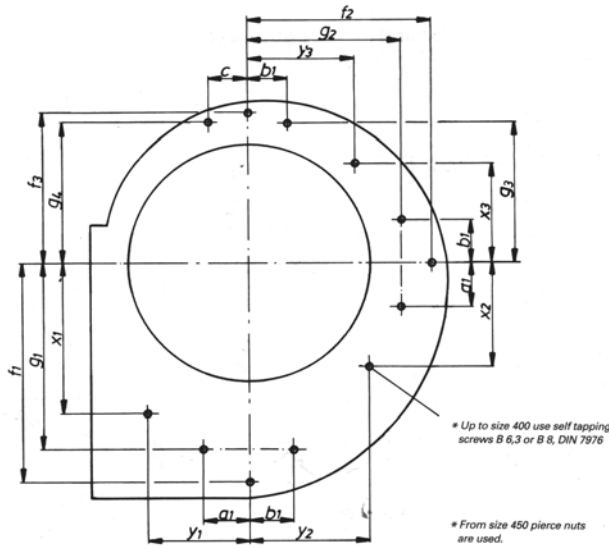
Radial Fan
THLZ 180 T to 450 T
 Dimensions and technical details

Drawing
5.3



THLZ	a (")	b (")	c (")	c1 (")	Φd	e (")	f (")	g (")	h (")	j (")	n (")	n1 (")	n2 (")	o (")	p (")	r (")	s (")
180	13.31	11.26	6.02	0.98	20mm	9.02	1.34	0.89	0.24	7.68	10.98	10.98	12.01	10.00	15.94	7.09	2.48
200	14.61	12.36	6.46	0.98	20mm	10.08	1.22	0.89	0.24	8.50	12.05	12.05	13.07	11.06	17.13	8.82	2.56
225	16.38	13.70	7.09	0.98	20mm	11.34	1.34	0.89	0.24	9.57	13.31	13.31	14.33	12.32	18.50	8.82	2.60
250	18.19	15.12	7.68	0.98	20mm	12.68	1.42	0.89	0.24	10.63	14.65	14.65	15.67	13.66	19.45	8.82	2.40
280	20.39	17.01	8.46	0.98	25mm	14.21	1.38	1.10	0.31	11.89	16.57	16.18	17.60	15.39	23.03	11.02	3.23
315	22.76	18.90	9.29	0.98	25mm	15.91	1.54	1.10	0.31	13.43	18.27	17.87	19.29	17.09	23.94	11.02	2.83
355	25.79	21.34	10.28	0.98	30mm	17.83	1.54	1.30	0.31	15.12	20.98	19.80	21.30	19.41	27.91	13.98	3.46
400	28.98	23.86	11.46	0.98	30mm	19.96	1.77	1.30	0.31	17.01	23.11	21.93	23.43	21.54	29.65	13.98	3.27
450	32.60	26.54	12.68	0.98	35mm	22.40	2.05	1.50	0.39	19.13	25.55	24.37	26.65	23.98	34.45	17.72	4.45

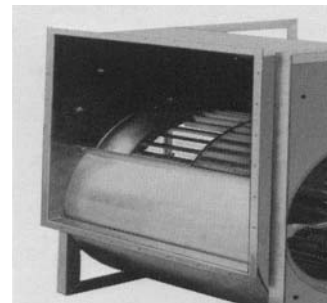
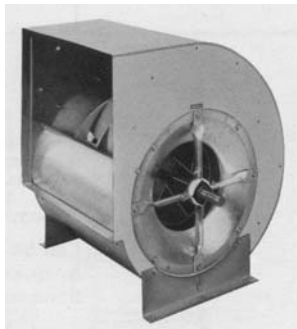
THLZ	s1 (")	u (")	v (")	z (")	x (")	Φy	q1 (")	Φw	r1 (")	Lbs	Z1 x t (In.)
180	10.20	0.35	1.18	0.20	0.98	7.5mm	0.20	7.5mm	-		0.08 x 3.54
200	11.26	0.43	1.18	0.20	0.98	7.5mm	0.16	8mm	-		0.08 x 3.54
225	12.52	0.47	1.18	0.20	0.98	7.5mm	0.16	8mm	-	29.1	0.12 x 3.54
250	13.86	0.28	1.18	0.20	0.98	7.5mm	0.16	8mm	-	33.9	0.12 x 3.54
280	15.39	0.83	1.57	0.20	1.18	7.5mm	0.20	10mm	-	45.7	0.12 x 3.54
315	17.09	0.43	1.57	0.20	1.18	7.5mm	0.12	10mm	-	59.6	0.16 x 3.54
355	19.02	1.06	1.57	0.39	1.57	7.5mm	0.20	10mm	-	86.0	0.16 x 3.54
400	21.14	0.87	1.57	0.39	1.57	7.5mm	0.16	10mm	6.99	101.4	0.20 x 3.54
450	23.58	1.38	1.97	0.39	1.57	7.5mm	0.24	12mm	8.86	135.6	0.24 x 3.54



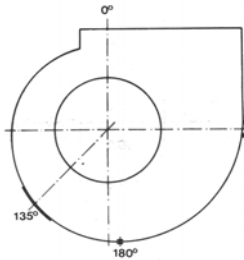
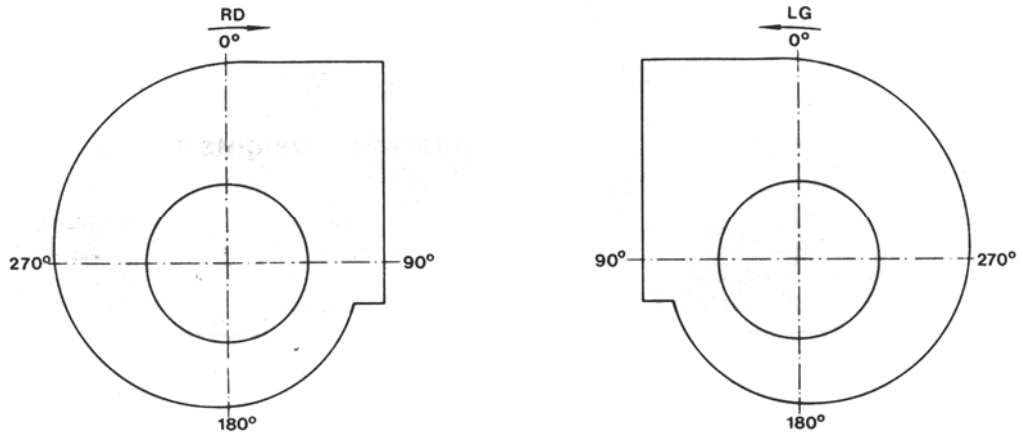
Fan size THLZ	a ₁ (")	b ₁ (")	C(")	f ₁ (")	f ₂ (")	f ₃ (")	g ₁ (")	g ₂ (")	g ₃ (")	g ₄ (")	x ₁ (")	x ₂ (")	x ₃ (")	y ₁ (")	y ₂ (")	y ₃ (")	*
180 (7)	1.18	1.18	1.18	-	-	-	6.89	4.53	4.53	4.53	5.55	3.62	3.19	3.62	3.19	3.62	B 6,3
200 (8)	1.57	1.57	1.57	7.95	6.42	5.28	7.48	5.08	4.96	4.96	6.10	4.33	3.58	4.33	3.70	4.33	B 6,3
225 (9)	1.57	1.57	1.57	9.02	7.28	5.98	8.62	5.87	5.59	5.59	7.24	4.33	4.21	4.33	4.49	4.33	B 6,3
250 (10)	1.57	1.57	1.57	10.08	8.19	6.73	9.61	6.77	6.10	6.10	8.23	4.33	4.72	4.33	5.39	4.33	B 6,3
280 (11)	4.45	4.45	2.80	11.30	9.17	7.52	9.65	6.65	5.91	6.69	-	-	-	-	-	-	B 8
315 (12)	4.45	4.45	2.80	12.72	10.35	8.46	11.18	7.76	6.89	7.68	-	-	-	-	-	-	B 8
355 (14)	6.14	6.14	6.14	14.33	11.61	9.49	11.61	8.03	6.22	6.22	7.78	-	-	7.78	-	-	B 8
400 (16)	6.14	6.14	6.14	16.18	13.23	10.83	13.62	9.57	7.32	7.32	8.66	-	-	8.66	-	-	B 8
450 (18)	8.39	8.39	8.39	18.35	14.92	12.24	13.78	10.67	6.61	6.61	9.65	-	-	9.65	-	-	M 10

5.5 – Accessory Wgts

Fan size	Add Feet (lbs)	Add Outlet Flange (lbs)
180 (7)	1.10	1.59
200 (8)	1.76	1.76
225 (9)	1.76	1.94
250 (10)	1.76	2.14
280 (11)	2.20	2.36
315 (12)	2.20	2.65
355 (14)	4.41	2.98
400 (16)	4.41	3.31
450 (18)	8.16	3.75



6. Fan Discharge and Accessory Position



6.1 Clockwise right hand (RD) and Counter Clockwise left hand (LG) fans. Fan rotation is always decided when looking from the drive side (i.e. that coupled with the motor). Fan discharges are therefore always described by either RD ... or LG ... followed by the required outlet position (i.e. 90°).

6.2 Positions of accessories are described similarly, viewed from the drive side.

6.3 When inlet vane controls are specified it is essential to state the position of the actuating arm, see 7.4.

6.4 Example of fan discharge and accessory position:
 Fan discharge LG 0°
 Inspection door 135°
 Drain 180°

7. Instructions for Ordering and Specifying

7.1 All standard fans are detailed on drawings 7.1, 7.2 and 7.3.
 To order or specify fans they must be described as follows:
 Fan range either THLZ-B, THLZ-R, or THLZ-T.
 Fan size which represents the diameter of impellers in mm (ie. 180).

7.2 Accessories are represented by the following symbols:

F = Feet
 A = Outlet flange
 I = Inspection door
 K = Condensation drain

7.3 Ordering Example

To order a Basic Style THLZ 355 with discharge position LG 90° *plus* feet, outlet flange, inspection door, and drain.

Order as follows:
 THLZ 355 B – A - F LG 90° - I 225° - K 180°

Due to improvements which are introduced from time to time the company reserves the right to alter the products specified in this catalogue.

8. Ask about Complete Assemblies

CALL THE FACTORY ABOUT
COMPLETE FULL ASSEMBLIES

HORIZONTAL DISCHARGE

SPECIFY OUTLET POSITIONED (TOP or BOTTOM)
SPECIFY MOTOR POSITIONED (BEHIND or ADJACENT)
SPECIFY DRIVEN (LEFT or RIGHT FACING FRONT)

VERTICAL DISCHARGE (UPBLAST)

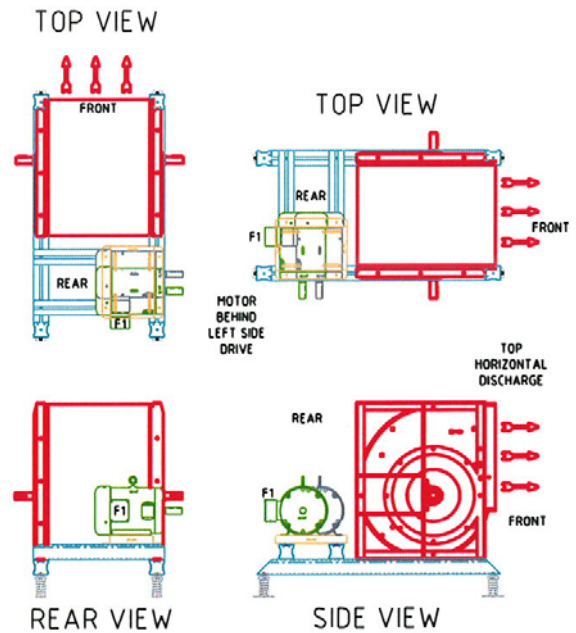
SPECIFY OUTLET POSITIONED (FRONT or REAR)
SPECIFY MOTOR POSITIONED (BEHIND or ADJACENT)
SPECIFY DRIVEN (LEFT or RIGHT FACING FRONT)

VERTICAL DISCHARGE (DOWNBLAST)

SPECIFY OUTLET POSITIONED (FRONT or REAR)
SPECIFY MOTOR POSITIONED (BEHIND or ADJACENT)
SPECIFY DRIVEN (LEFT or RIGHT FACING FRONT)

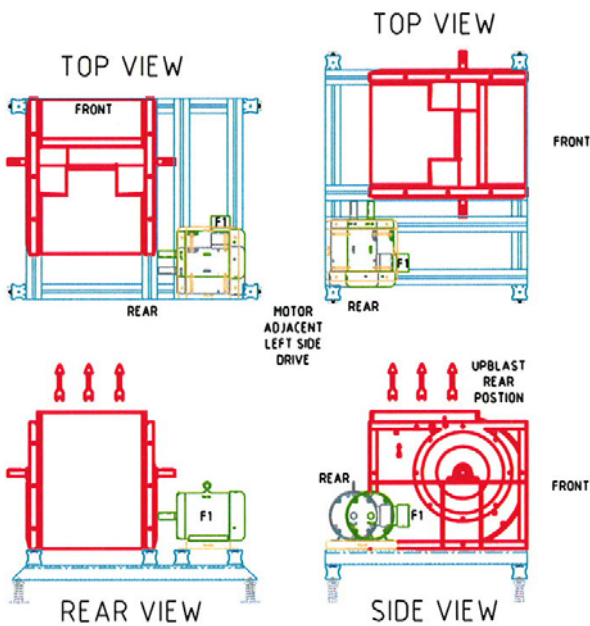
OPTIONAL FULL ASSEMBLY ACCESSORIES

ISOLATORS
BELT GUARDS
FLEXIBLE OUTLET
MOTOR BRAND & TYPE



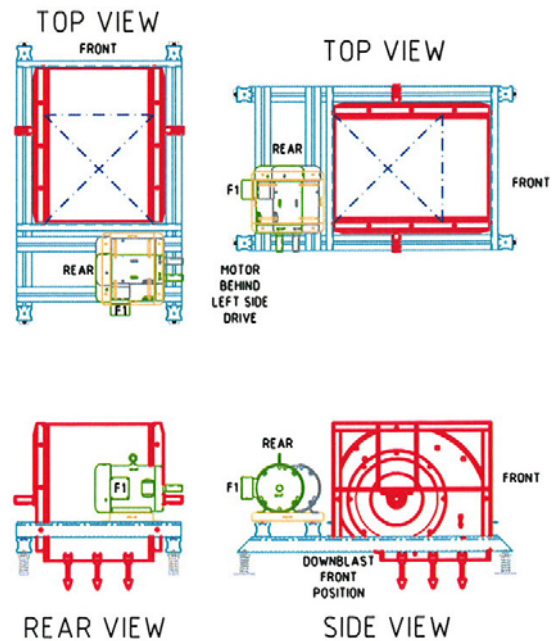
HORIZONTAL DISCHARGE

SPECIFY OUTLET POSITIONED (TOP or BOTTOM)
SPECIFY MOTOR POSITIONED (BEHIND or ADJACENT)
SPECIFY DRIVEN (LEFT or RIGHT FACING FRONT)



VERTICAL DISCHARGE (UPBLAST)

SPECIFY OUTLET POSITIONED (FRONT or REAR)
SPECIFY MOTOR POSITIONED (BEHIND or ADJACENT)
SPECIFY DRIVEN (LEFT or RIGHT FACING FRONT)



VERTICAL DISCHARGE (DOWNBLAST)

SPECIFY OUTLET POSITIONED (FRONT or REAR)
SPECIFY MOTOR POSITIONED (BEHIND or ADJACENT)
SPECIFY DRIVEN (LEFT or RIGHT FACING FRONT)



Comefri SpA

Via Buja, 3
I-33010 Magnano in Riviera (UD)
Italy
Tel. +39-0432-798811
Fax +39-0432-783378
E-mail: info@comefri.com

Comefri UK Ltd

Carters Lane, 8 Kiln Farm
Milton Keynes, MK11 3 ER
Great Britain
Tel. +44-1908-56 94 69
Fax +44-1908-56 75 66
E-mail: sales@comefri.co.uk

Comefri GmbH

Landshuter Str.55
84030 Ergolding
Germany
Tel. +49-871-43070-0
Fax +49-871-43070-40
E-mail: info@comefri.de

Comefri Nordisk ApS

Mileparken, 18
DK 2740 Skovlunde
Denmark
Tel. +45-44-92 76 00
Fax +45-44-92 55 33
E-mail: mail.dk@comefri.com

Comefri France S.A.

10, Rue des Frères Lumière
69740 Genas
France
Tel. +33-4-72 79 03 80
Fax +33-4-78 90 69 73
E-mail: info@comefrifrance.fr

Comefri USA, Inc

330 Bill Bryan Boulevard
Hopkinsville, KY 42240
USA
Tel. +1-270-881-1444
Fax + 1-270-889-0309
E-mail:
sales@comefriusa.com

