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WING TON FAN INDUSTRY LIMITED



DTF-F Series Forward Curved Belt Driven Fans

CATA-AMCA-DTF-F January, 2014

<http://www.wington.com>

DTF-F Series Forward Curved Belt Driven Fans



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Wing Ton Fan Industry Limited certifies that the DTF-F Series Forward Curved Belt Driven Fan, Model DTF-F9, F12, F15, F18, F22 and F28 shown herein are licensed to bear the AMCA Seal. The ratings shown are based on tests and procedures performed in accordance with AMCA Publication 211 and AMCA Publication 311 and comply with the requirements of the AMCA Certified Ratings Program.

General Description:

- The DTF-F is a belt driven cabinet fan. It incorporates double inlet forward curved centrifugal fan. It offers a wide range of airflow and static pressure development performances. The range comprises of ten nominal product sizes with a selection of motor powers between 0.37 to 22.0kW.
- Air performance ranges from 1,300 m³/h up to 52,000 m³/h with the static pressure developments up to 1000 Pa. Due to the flexible design, the range can be supplied with either a horizontal or vertical discharge configuration to suit the most demanding applications.
- It is suitable for many general ventilation applications where precise continuous volume flow rates are required. Typical applications

include:

- Commercial office
- Public Buildings
- Restaurants
- Commercial and Industrial Kitchens



Construction:

- **Casing:**
The casings are made from heavy gauge galvanized sheet steel with double thickness side panels. All panels are internally lined with high density acoustic insulation, and the motor/belt access panel is supplied with pressure locks providing secure and fast maintenance. The DTJ-F ranges are supplied, as standard, with access door (for motor, pulley and belt assembly)
- **Fan/Impeller:**
All models incorporate a double inlet forward curved centrifugal impeller. The impeller is housed in a specially designed galvanized metal scroll casing. The complete impeller and motor assembly is then mounted within the fan cabinet on anti-vibration mounts and connected to the discharge port with a regular flexible coupling. All models are supplied as standard, in horizontal discharge configuration. However, other discharge configuration can be supplied to special order. Please enquire.
- **Motor:**
All models incorporate three phase induction motors with a squirrel cage rotor in die cast aluminum. All motors are IP55 Protection.

HOW TO CHOOSE A RIGHT FAN

Fan Selection:

Please select fans within the curve. Do not select above curve end, fan will work in stall and will be damaged. For a non-overloading selecting you can select motor on the peak-kW from each fan speed which marks and cover maximum on absorbed

Example:

Required duty point by customer

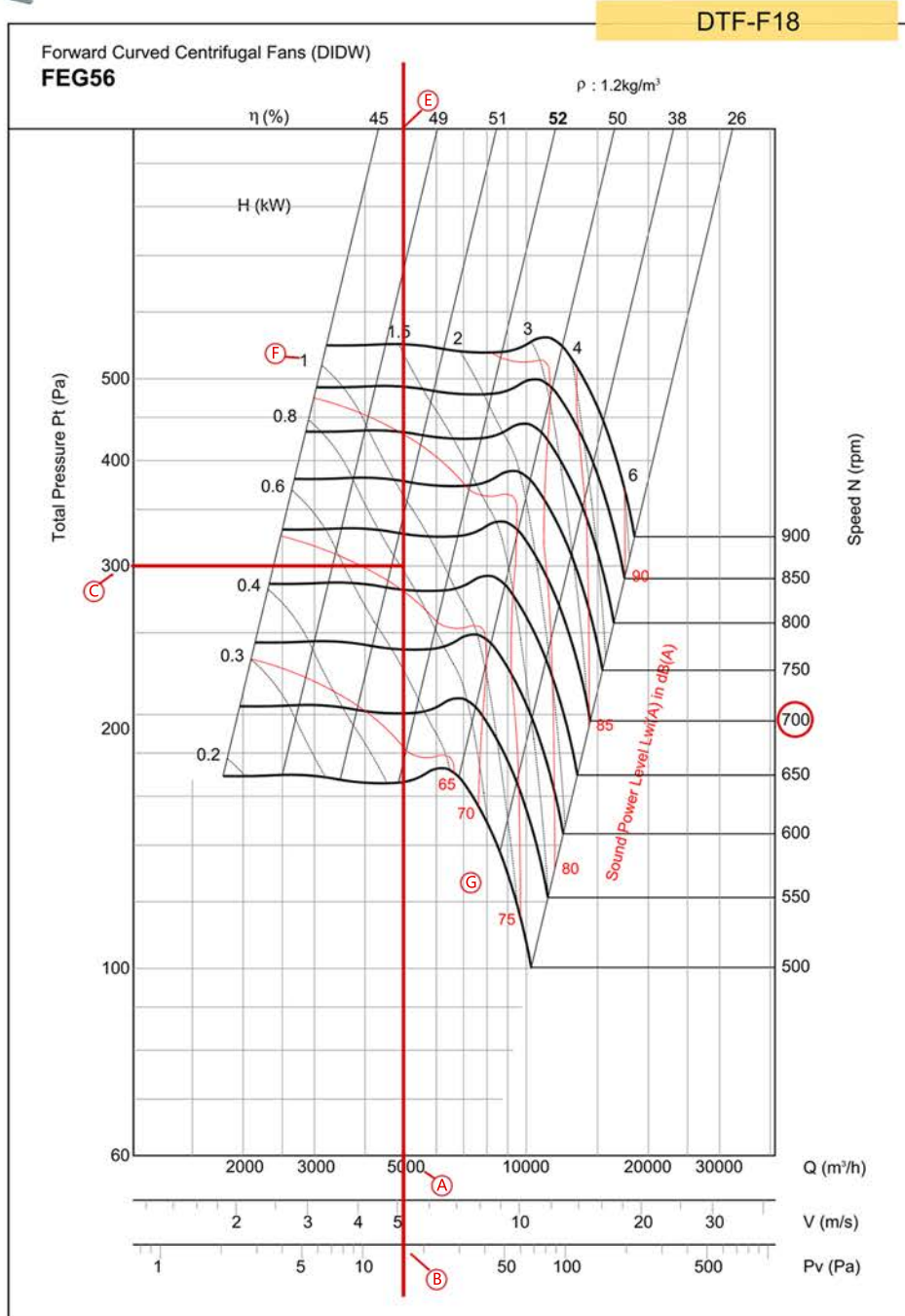
- Airflow: 5000 m³ /h (**A**)
- Static Pressure: 280 Pa (For total pressure 298 Pa(**C**), please add dynamic pressure 18 Pa(**B**) to static pressure 280 Pa)

After choosing right fan performance curve, please draw volume flow and pressure. In the cross you will find the following fan data:

- Fan Speed: 700 RPM
 - Fan Efficiency: 47%(**E**)
 - Sound Power Level: 73 dB(**G**)
 - The peak absorbed power is 1.0 Kw(**F**)
- The Motor Power to be advised by manufacturer



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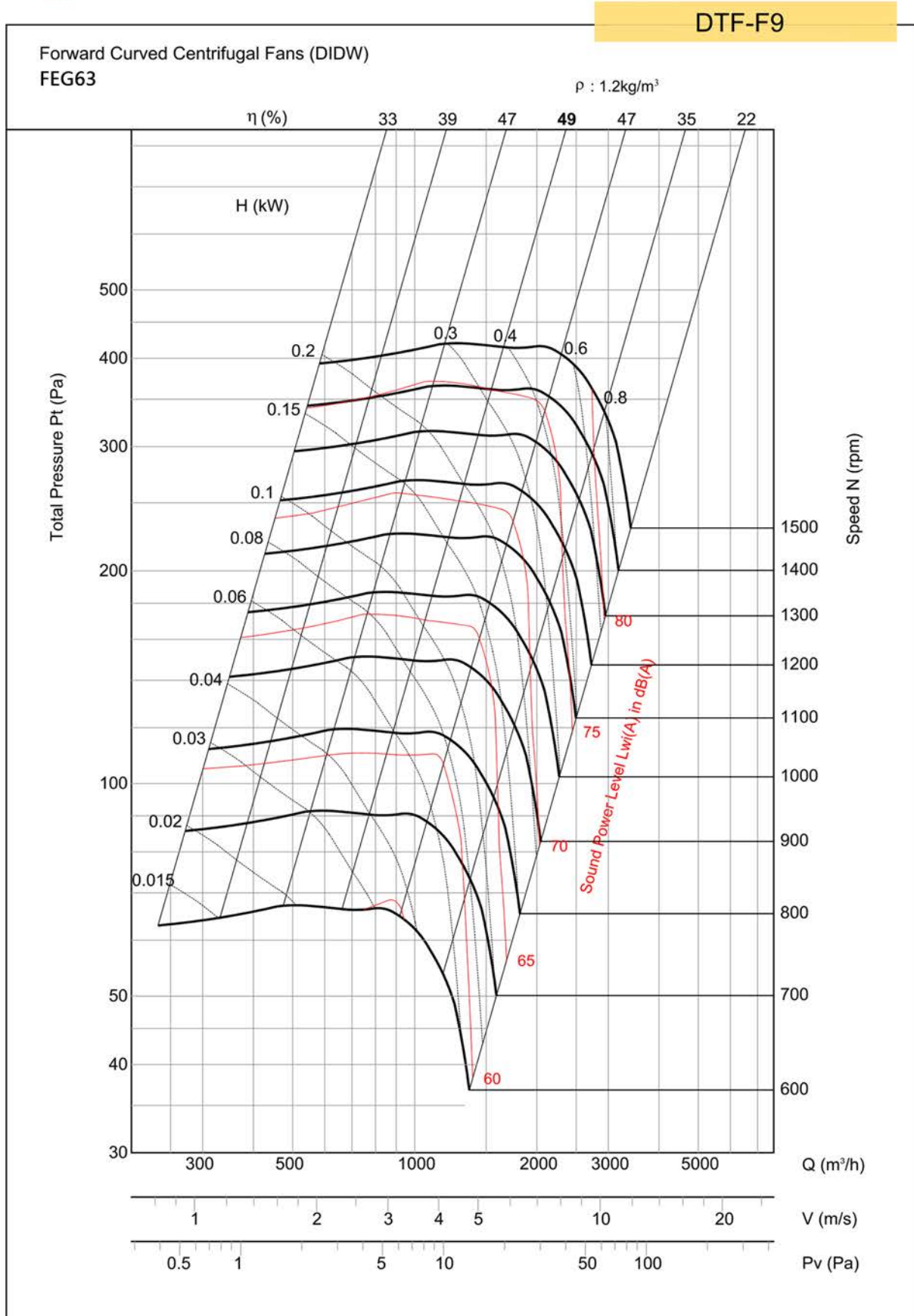
- Performance certified for installation type D - Ducted inlet, Ducted outlet. Power rating kW does not include transmission losses. Performance ratings do not include the effects of appurtenances (accessories)
- The A-weighted sound ratings shown have been calculated per AMCA International Standard 301. Values shown are for inlet LwA sound power levels for installation Type D: ducted inlet, ducted outlet.



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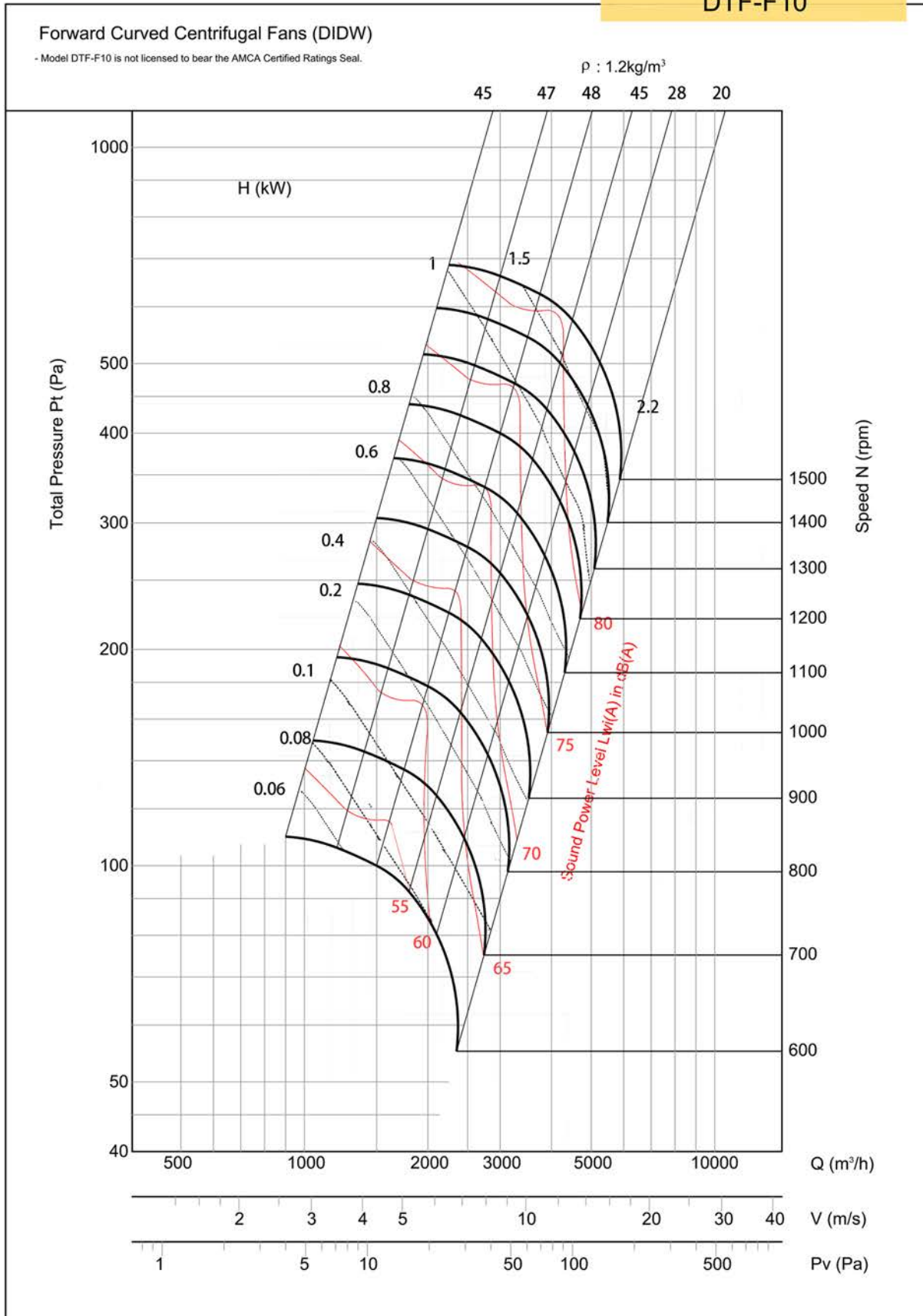


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DTF-F10



- Performance is for installation type D - Ducted inlet, Ducted outlet. Power rating kW does not include transmission losses. Performance ratings do not include the effects of appurtenances (accessories)
 - The A-weighted sound ratings shown have been calculated per AMCA International Standard 301. Values shown are for inlet Lw(A) sound power levels for installation Type D: ducted inlet, ducted outlet.

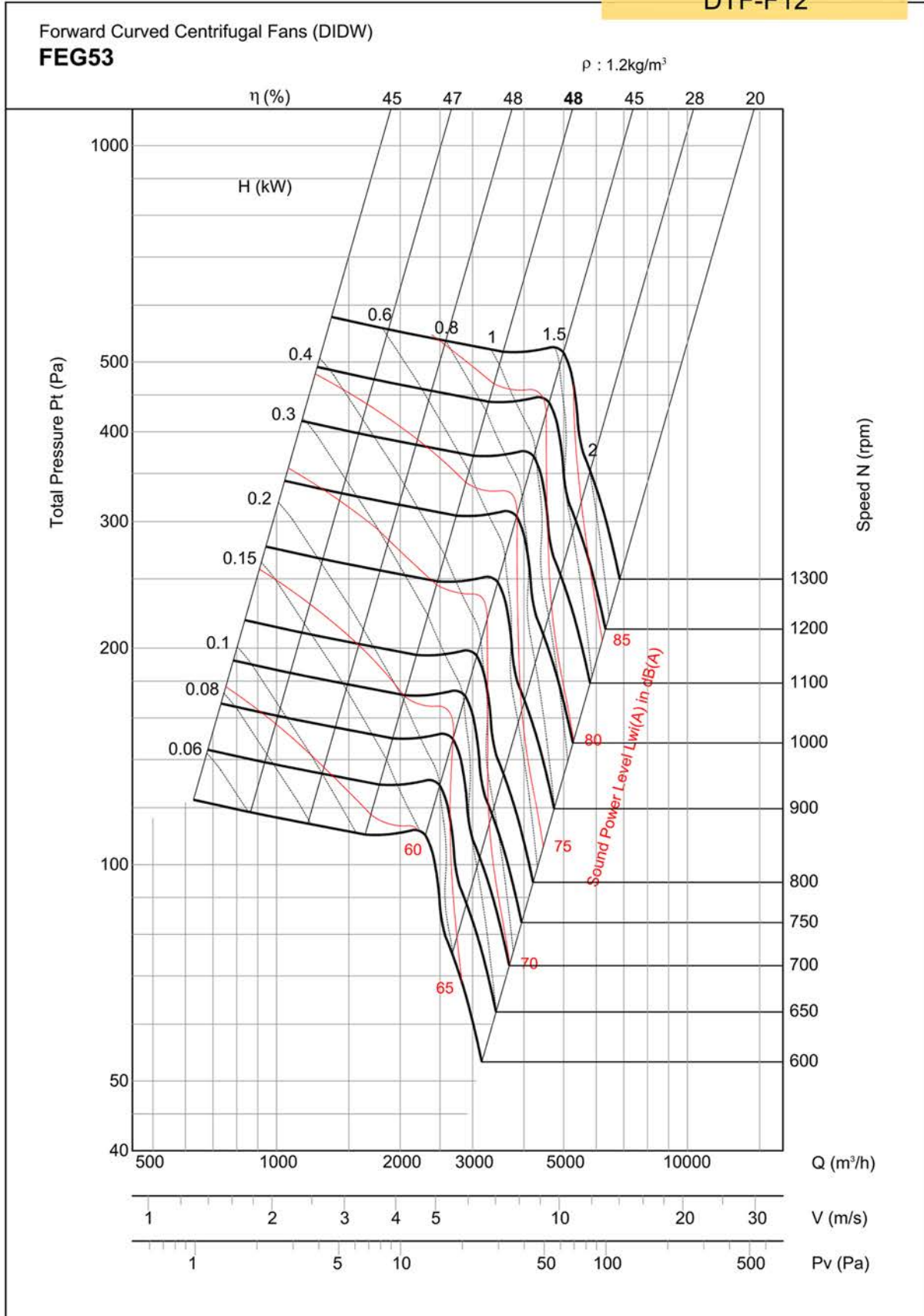


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DTF-F12



- Performance certified is for installation type D - Ducted inlet, Ducted outlet. Power rating kW does not include transmission losses. Performance ratings do not include the effects of appurtenances (accessories)
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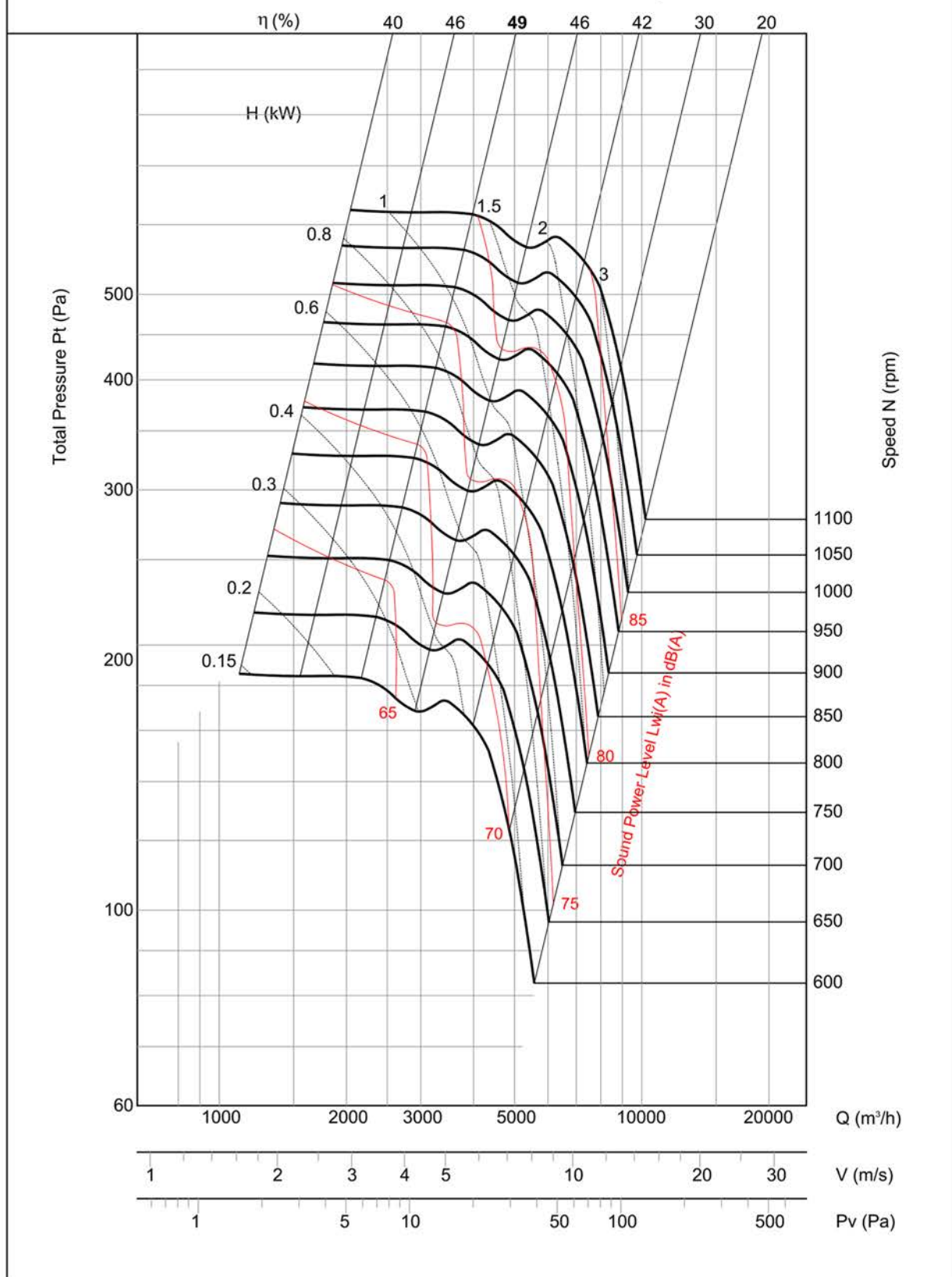


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DTF-F15

Forward Curved Centrifugal Fans (DIDW)
FEG53

$\rho : 1.2\text{kg/m}^3$



- Performance certified is for installation type D - Ducted inlet, Ducted outlet. Power rating kW does not include transmission losses. Performance ratings do not include the effects of appurtenances (accessories)
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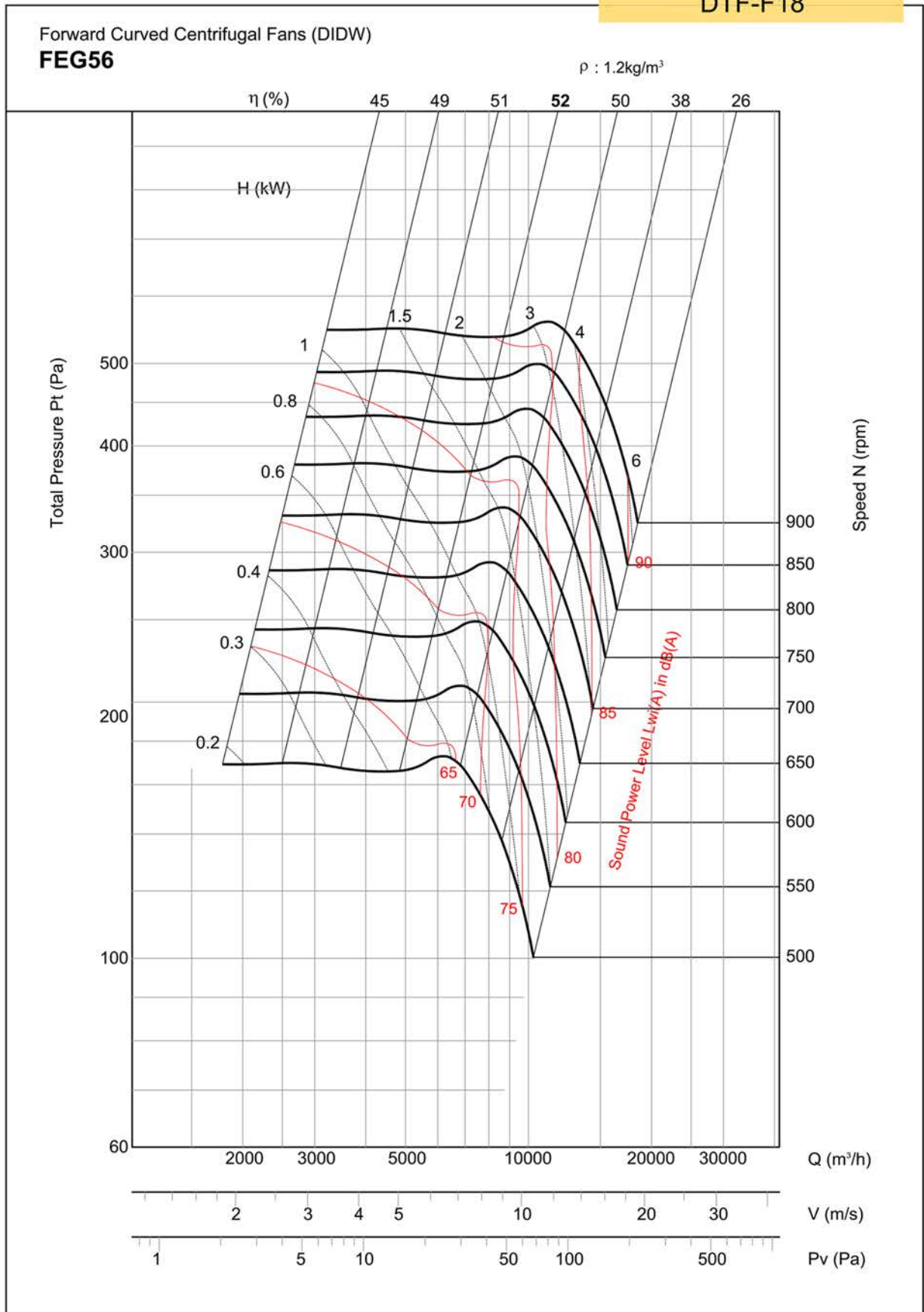


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DTF-F18



- Performance certified is for installation type D - Ducted inlet, Ducted outlet. Power rating kW does not include transmission losses. Performance ratings do not include the effects of appurtenances (accessories)
 - The A-weighted sound ratings shown have been calculated per AMCA International Standard 301. Values shown are for inlet Lw(A) sound power levels for installation Type D: ducted inlet, ducted outlet.

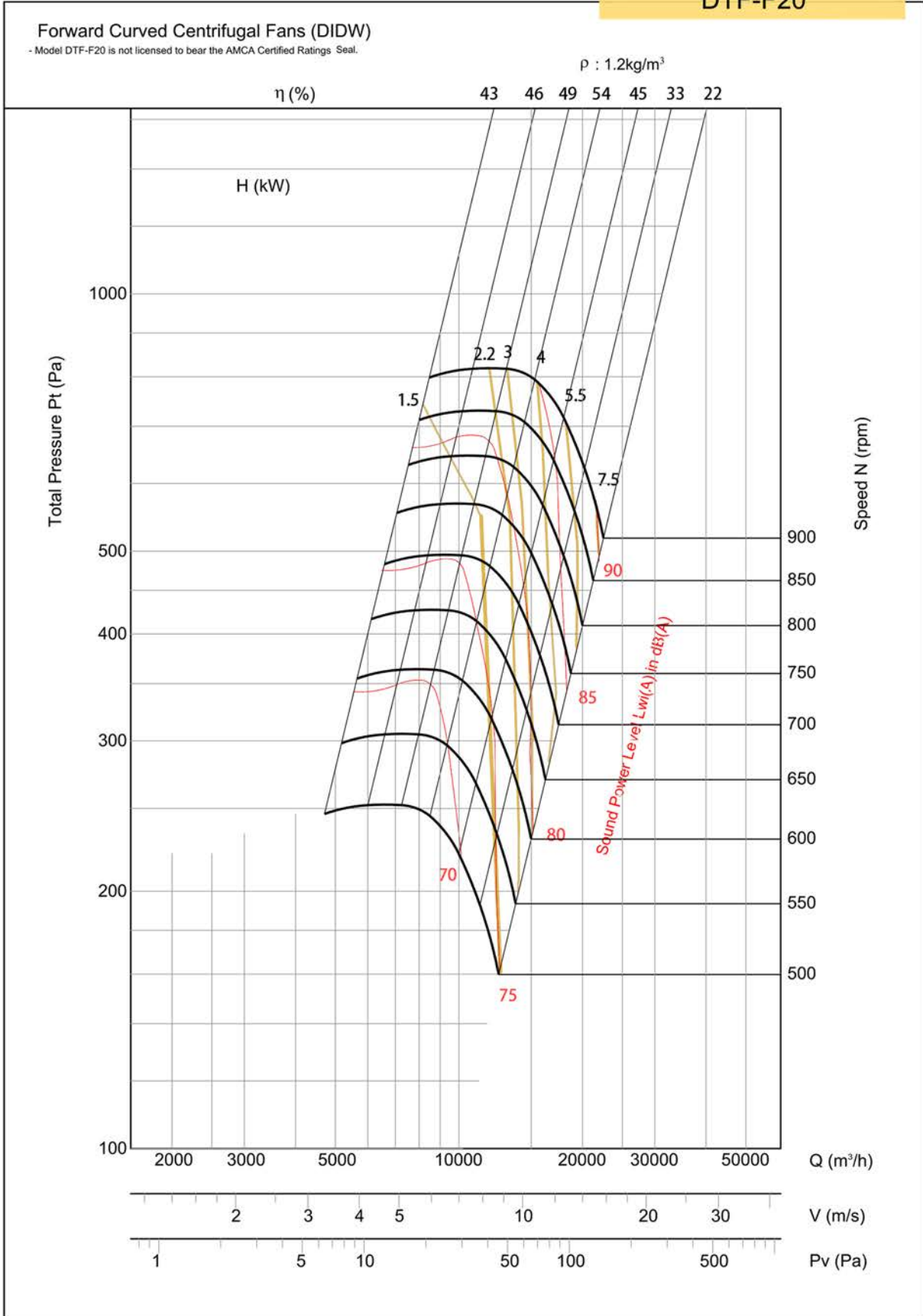


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DTF-F20



- Performance is for installation type D - Ducted inlet, Ducted outlet. Power rating kW does not include transmission losses. Performance ratings do not include the effects of appurtenances (accessories)
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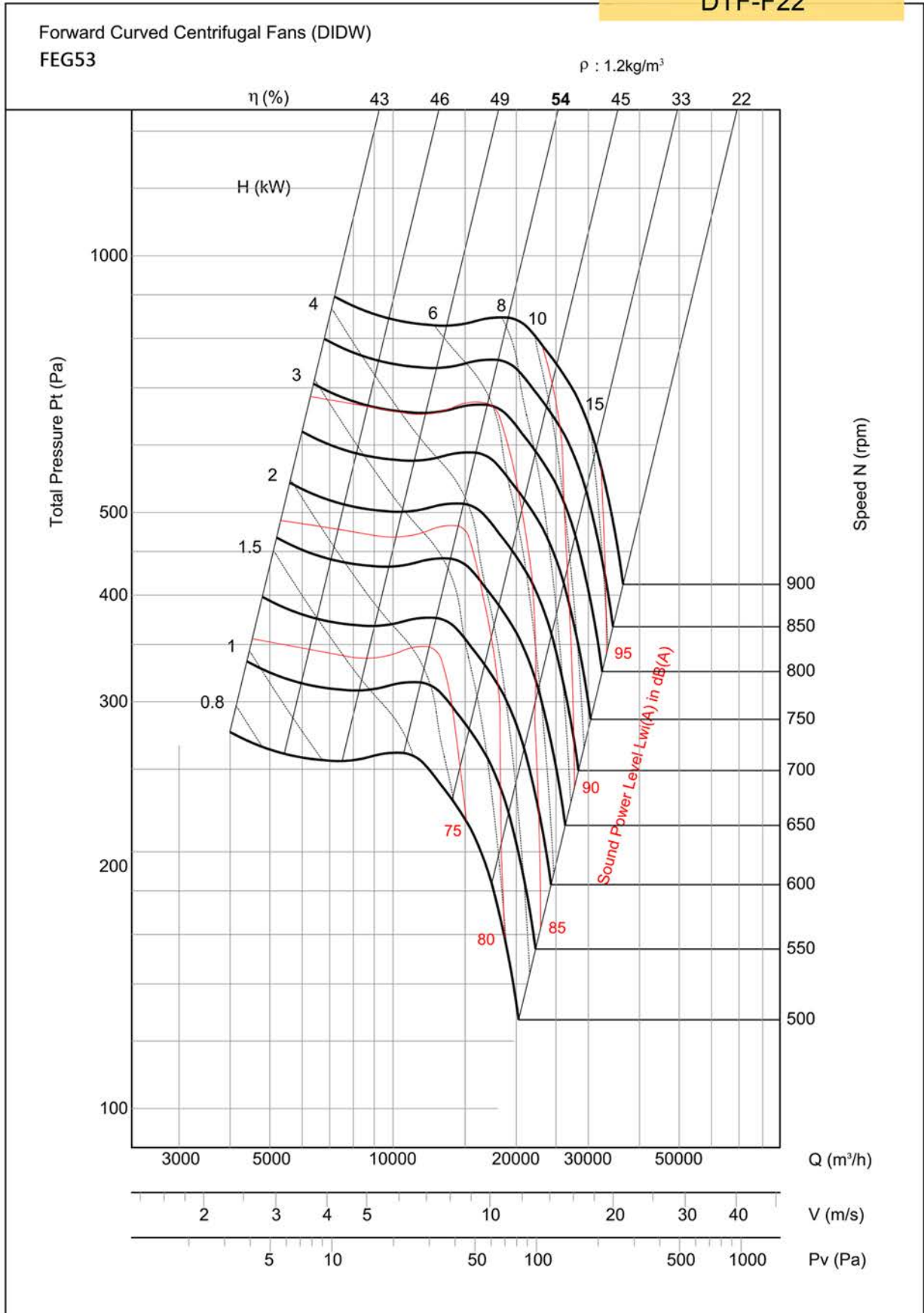


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DTF-F22



- Performance certified is for installation type D - Ducted inlet, Ducted outlet. Power rating kW does not include transmission losses. Performance ratings do not include the effects of appurtenances (accessories)
- The A-weighted sound ratings shown have been calculated per AMCA International Standard 301. Values shown are for inlet Lw(A) sound power levels for installation Type D: ducted inlet, ducted outlet.

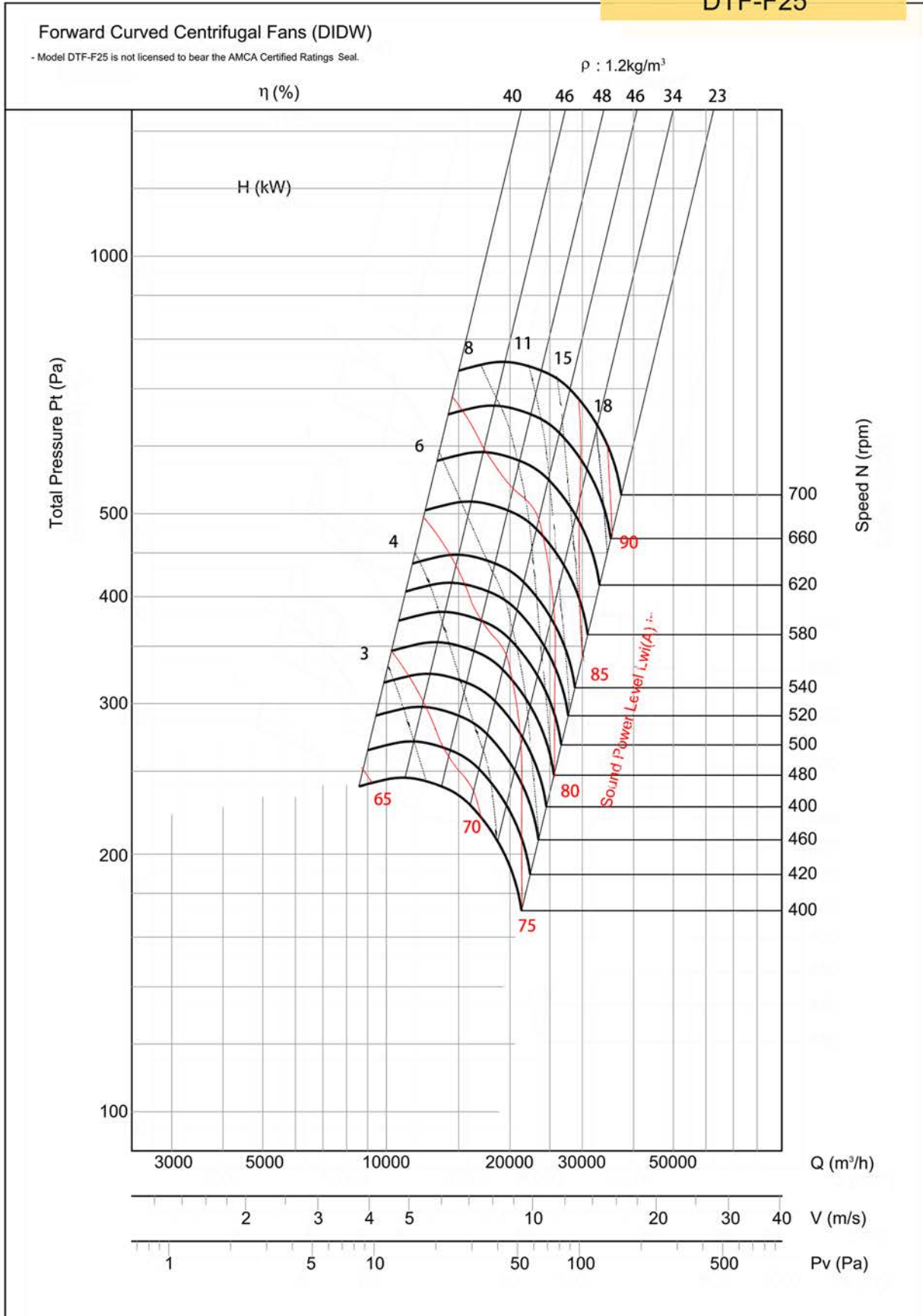


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DTF-F25



- Performance is for installation type D - Ducted inlet, Ducted outlet. Power rating kW does not include transmission losses. Performance ratings do not include the effects of appurtenances (accessories)
 - The A-weighted sound ratings shown have been calculated per AMCA International Standard 301. Values shown are for inlet L_{wi(A)} sound power levels for installation Type D: ducted inlet, ducted outlet.

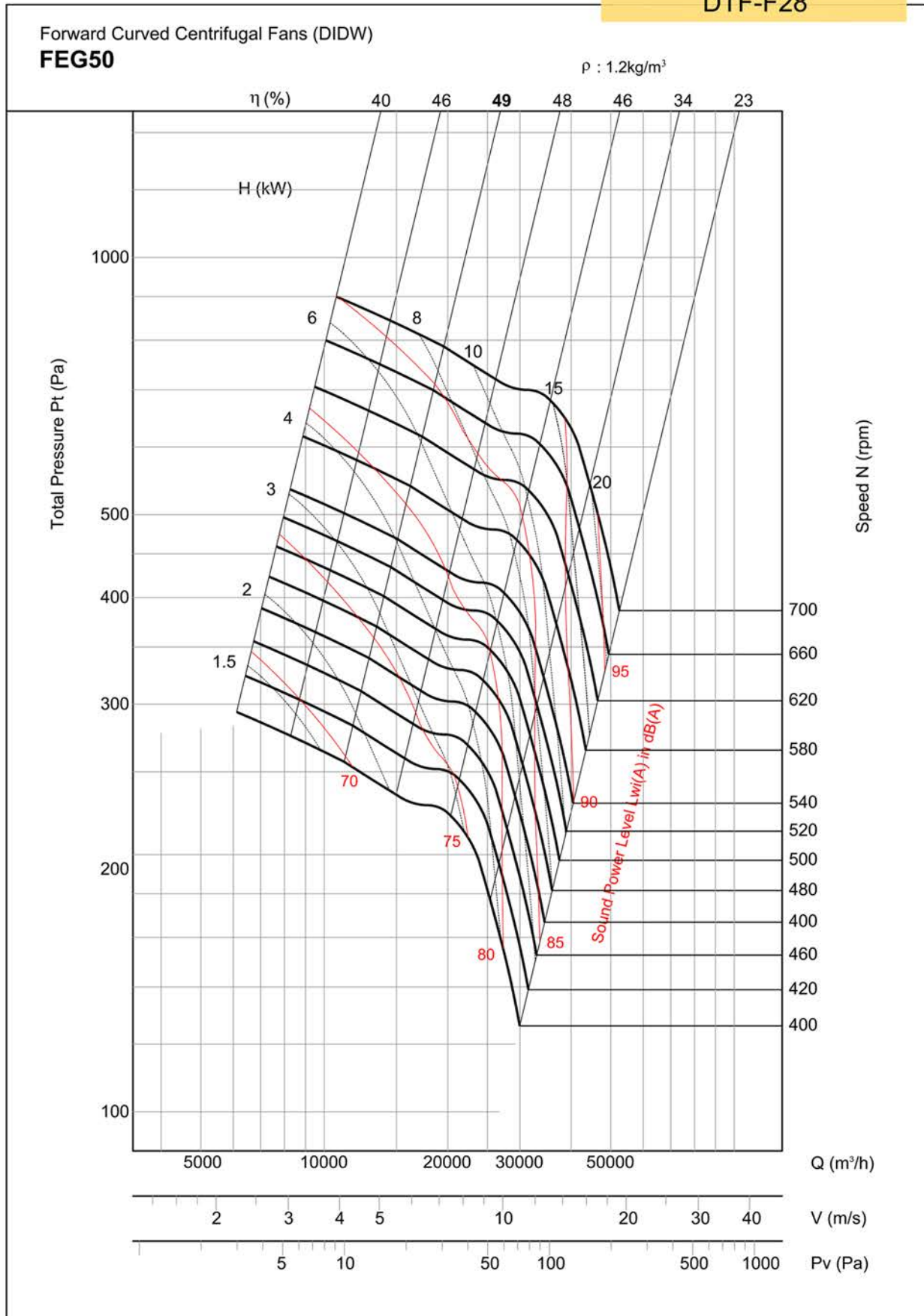


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DTF-F28



- Performance certified is for installation type D - Ducted inlet, Ducted outlet. Power rating kW does not include transmission losses. Performance ratings do not include the effects of appurtenances (accessories)
 - The A-weighted sound ratings shown have been calculated per AMCA International Standard 301. Values shown are for inlet LwA sound power levels for installation Type D: ducted inlet, ducted outlet.

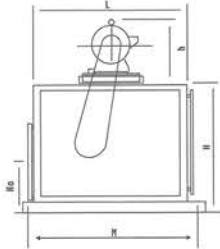


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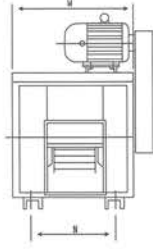


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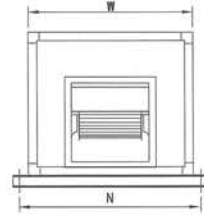
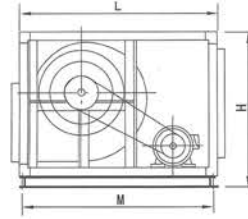
DIMENSION (mm)



DTF-F(9-28)A



DTF-F(9-28)B



(NO)	Over all dimension					Outlet Dimension		Inlet Dimension		Weight Kg	
	H		L		W	b	a	b	a	Type A	Type B
	Type A	Type B	Type B	Type A							
9"	464	464	850	656	656	306	260	496	304	92	90
10"	520	520	920	696	696	333	289	536	360	103	100
12"	598	598	1020	772	772	397	341	612	438	115	110
15"	687	687	1150	896	896	473	403	736	527	150	143
18"	817	817	1250	1016	1016	556	480	856	658	218	210
20"	996	996	1430	1116	1116	630	630	956	836	296	289
22"	1089	1089	1530	1236	1236	692	692	1076	929	360	352
25"	1220	1220	1650	1376	1376	794	794	1216	1060	405	395
28"	1378	1378	1800	1465	1465	870	870	1305	1218	530	520
30"	1479	1479	1850	1600	1600	933	933	1394	1319	600	590

Mounting Feet Dimension

(NO)		9"	10"	12"	15"	18"	20"	22"	25"	28"	30"
A	M(mm)	716	756	832	996	1116	1056	1196	1336	1420	1555
	N(mm)	606	646	722	846	956	1216	1356	1496	1585	1700
B	M(mm)	800	870	970	1100	1190	1370	1490	1610	1755	1805
	N(mm)	716	756	832	996	1116	1216	1356	1496	1585	1700

GENERAL TECHNICAL CHARACTERISTICS

Model Type	Motor Power (Kw)		Fan Speed (RPM)		Air Volume (m3/h)		Max weight with motor (Kg)
	Min	Max	Min	Max	Min	Max	
DTF-F09	0.55	1.1	1100	1500	1300	3000	102
DTF-F10	0.75	2.2	1100	1500	2200	5200	128
DTF-F12	0.75	3	900	1300	2800	6500	152
DTF-F15	1.5	5.5	750	1100	3900	9700	187
DTF-F18	2.2	5.5	650	900	6500	14000	219
DTF-F20	2.2	7.5	600	850	8700	19000	388
DTF-F22	4	11	600	800	12000	25000	468
DTF-F25	4	11	500	700	15000	32000	506
DTF-F28	5.5	18.5	480	700	21000	44000	655
DTF-F30	11	18.5	460	600	30000	52000	765

WING TON FAN INDUSTRY LIMITED



READY IN 2014



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