



# composite fans

## DPN – SERIES



**LIBERTY**

Composite Air Handling Units



# DPN – Series

Composite fans are used in industrial environments where reliability is a primary requirement. In recent years the DPN-series fans have proven themselves in this field and many customers rely on their high quality.

The development of the latest generation of DPN fans has been based on the most modern techniques. Reliability, lifespan and cost efficiency have been the most important criteria in this development.

Next to the reliability of the product, the quality of the supplier is just as important. At Liberty Composite Air Handling Units, quality comes first, so Liberty is NEN-EN-ISO 9001 certified and supplies according to CE. Every fan endures an extensive quality program and is tested before shipment.

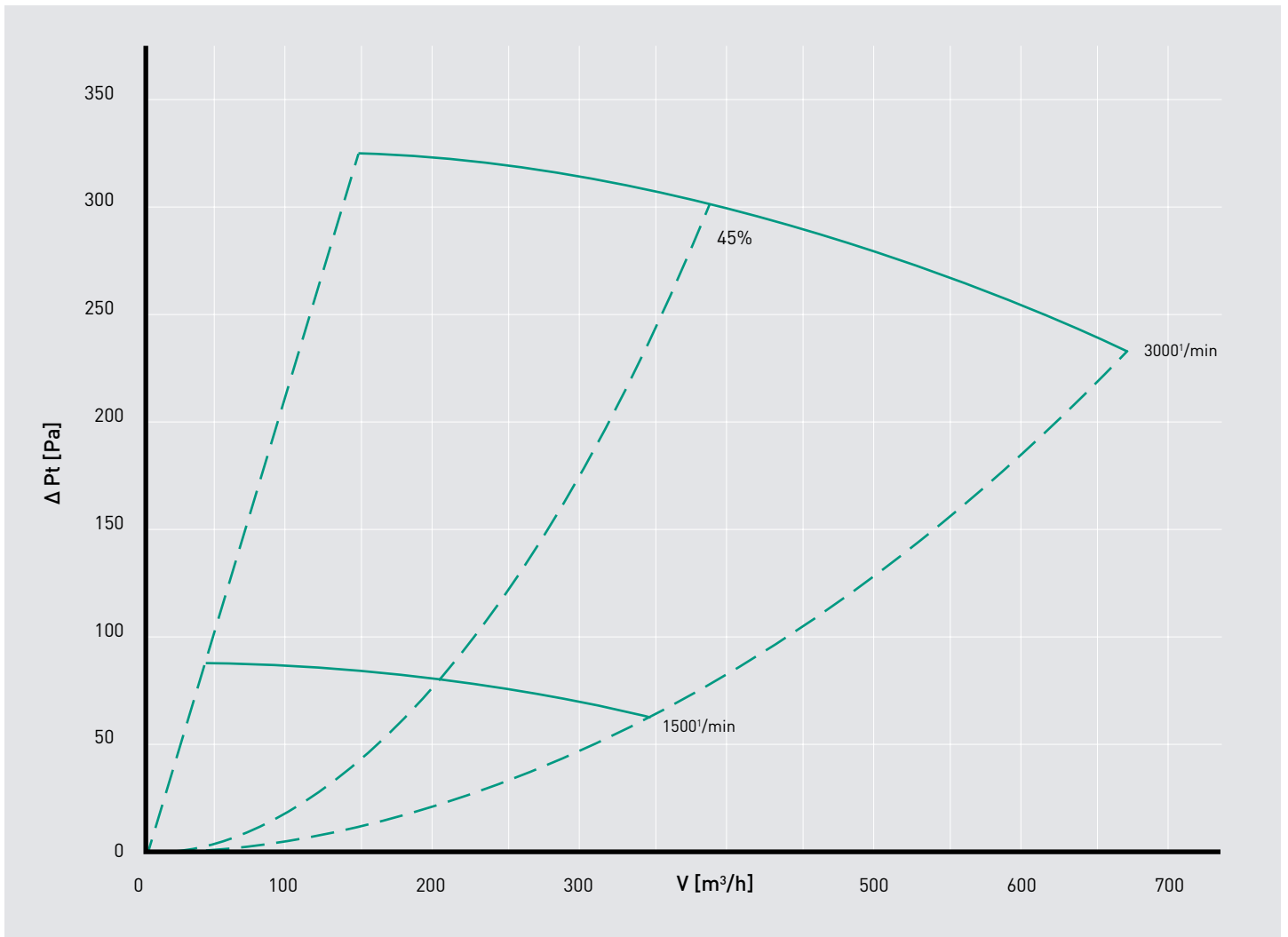
Most of the parts and/or complete fans are kept in stock at Liberty, ensuring fast and efficient delivery.



## Specifications

- Can be used with the standard roof curb type FS.
- Both impeller and housing are manufactured in PPs.
- Air displacement ranges from 100 m<sup>3</sup>/h to 30,000 m<sup>3</sup>/h.
- Area of application: fume cupboards, laboratories, hospitals and very humid areas.
- High chemical resistancy.
- Temperature resistancy up to approx. 70°C.
- Direct driven versions.

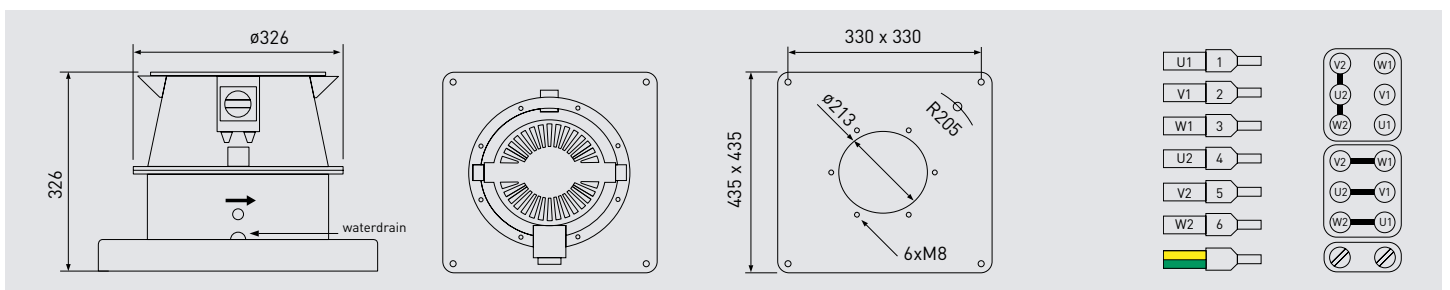
# DPN 110 technical specifications



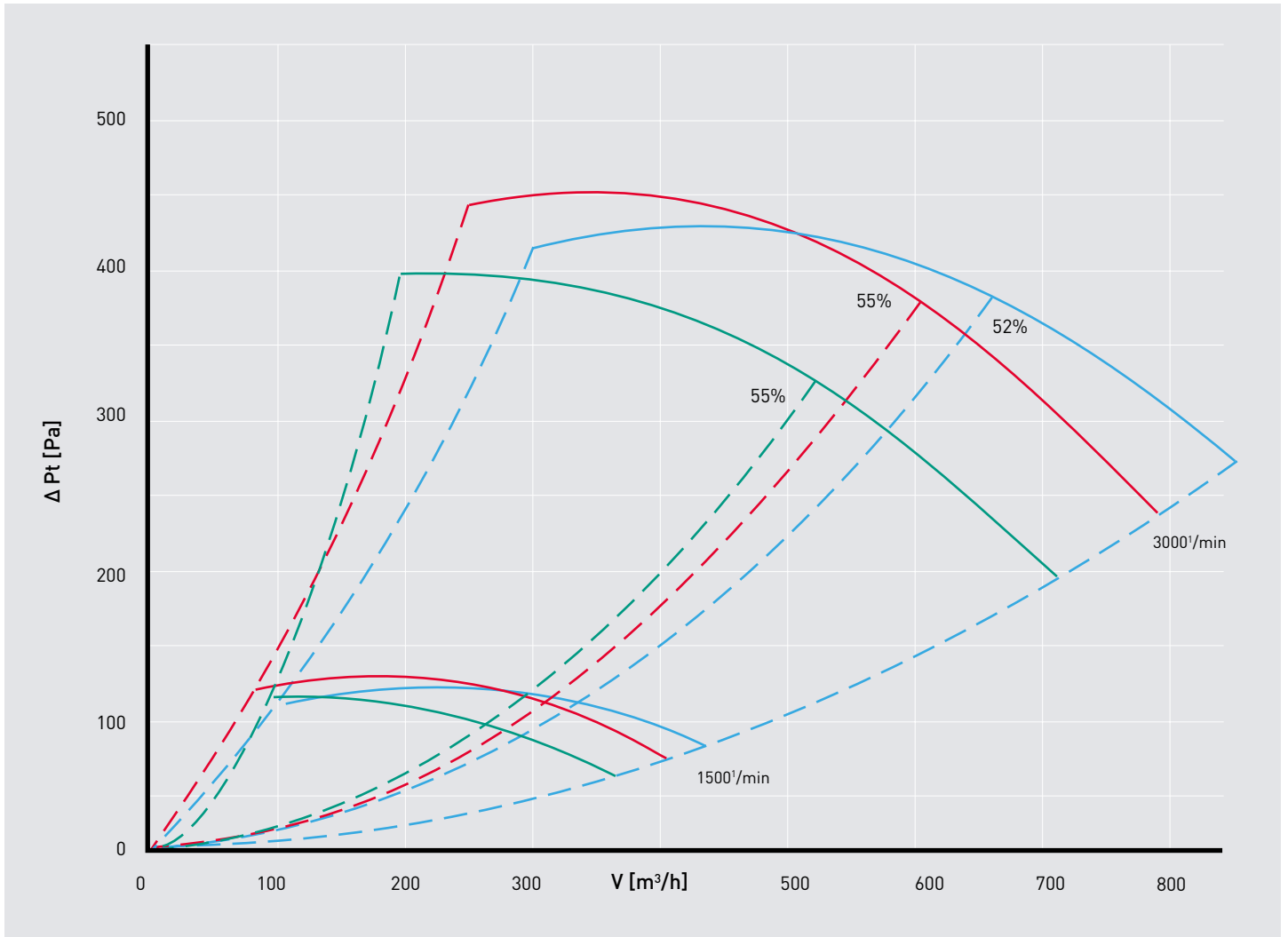
Sound Power Lw5A in dB(A) according to DIN 45635

Motor

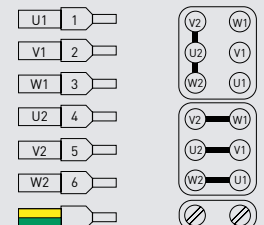
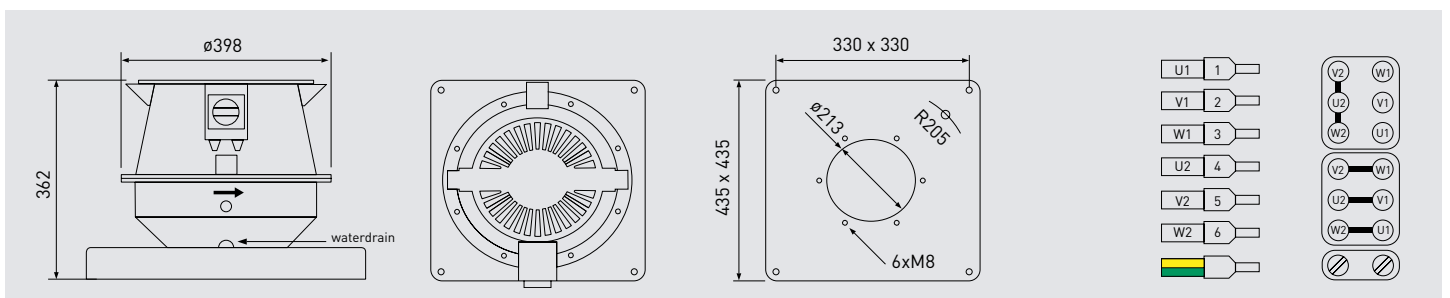
Speed [1/min]	Suction side- / discharge side; Lw3 = Lw4 [dB]								Lp8A (1 m) [dB(A)]	Motor Power [kW]	Nominal Current [A]400V	Weight [kg]
	63	125	250	500	1000	2000	4000	8000				
110												
3000	76	76	84	72	69	56	60	54	66	0,18	0,60	7
1500	76	64	72	59	56	51	45	40	54	0,06	0,70	7



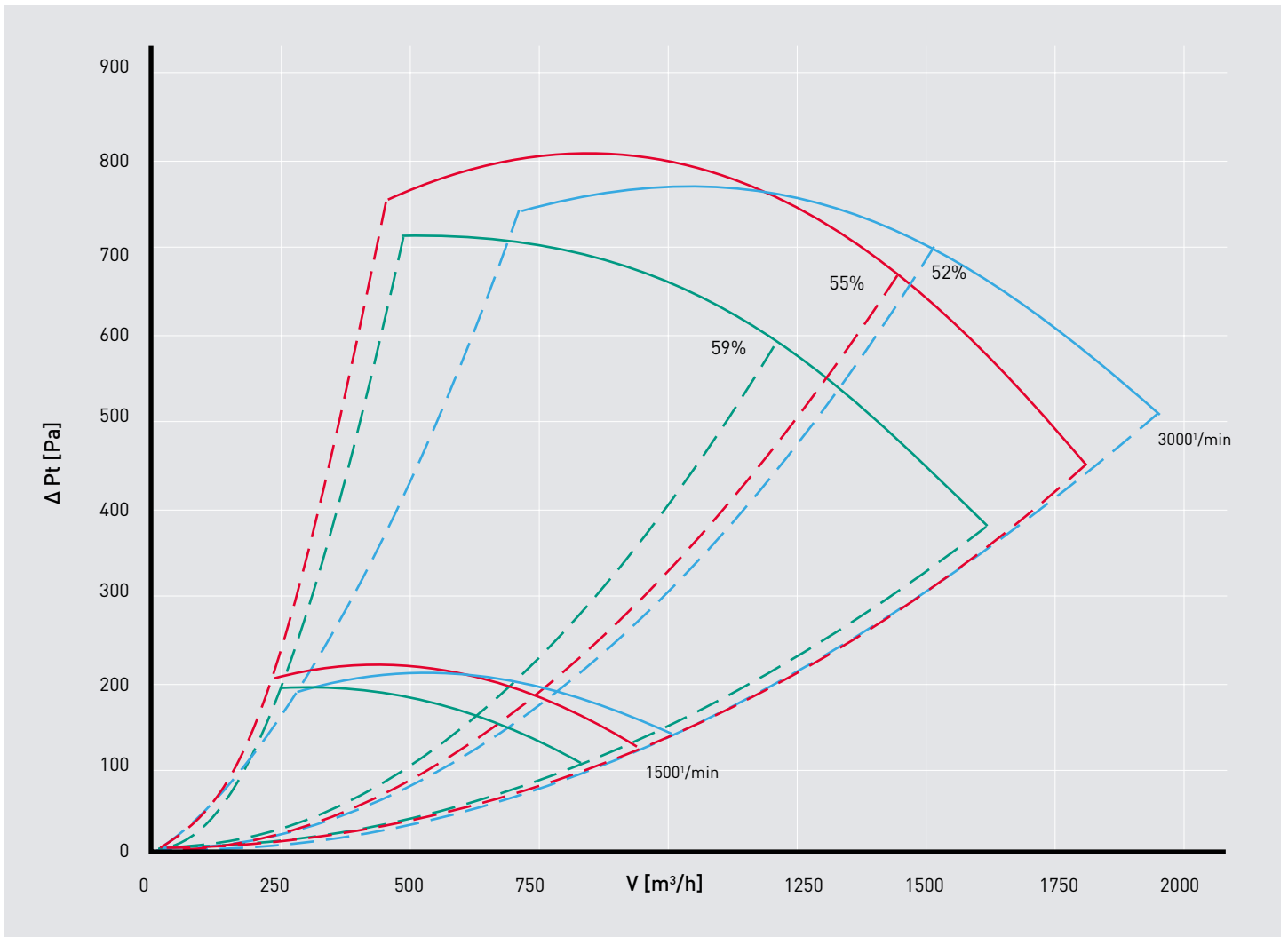
# DPN 125 technical specifications



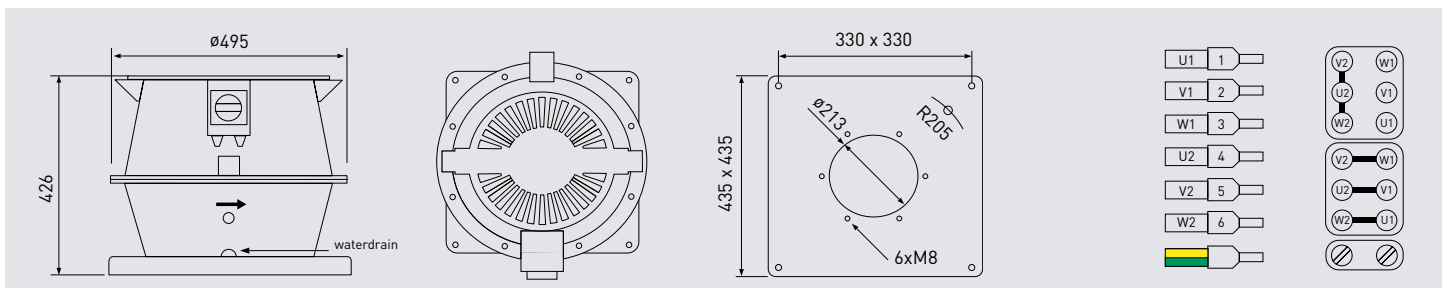
Speed [1/min]	Suction side- / discharge side; Lw3 = Lw4 [dB]								Lp8A (1 m) [dB(A)]	Motor		
	63	125	250	500	1000	2000	4000	8000		Motor Power [kW]	Nominal Current [A]400V	Weight [kg]
<b>125 L</b>												
3000	74	74	82	70	67	63	58	52	64	0,09	0,36	8
1500	61	62	70	57	54	49	43	38	52	0,06	0,35	8
<b>125 M</b>												
3000	75	75	83	71	68	64	59	53	65	0,12	0,50	8
1500	74	74	83	70	66	61	55	50	66	0,25	0,86	8
<b>152 H</b>												
3000	78	78	86	74	71	67	62	56	68	0,18	0,60	8
1500	78	66	74	61	58	53	47	42	56	0,06	0,70	8



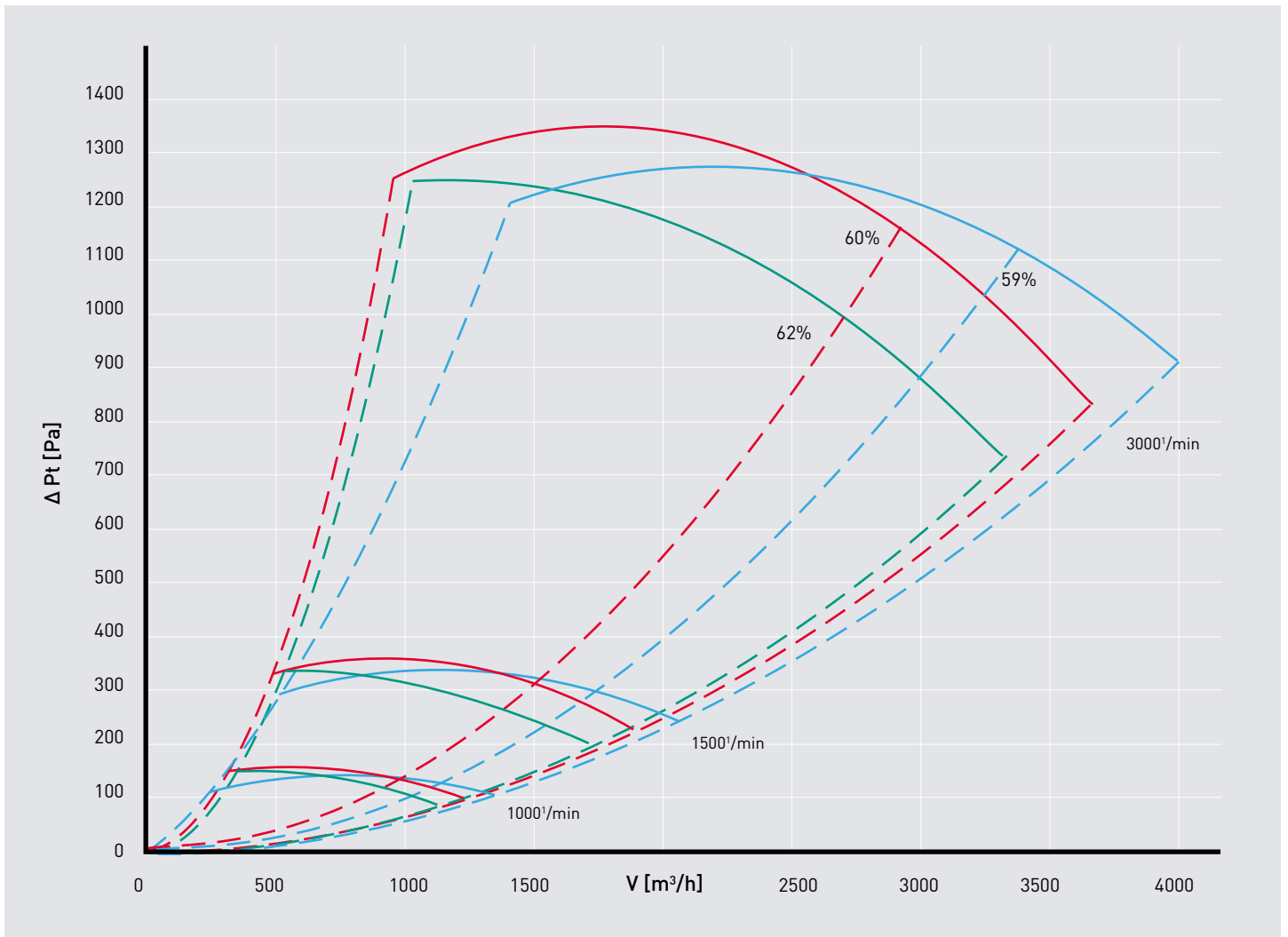
# DPN 160 technical specifications



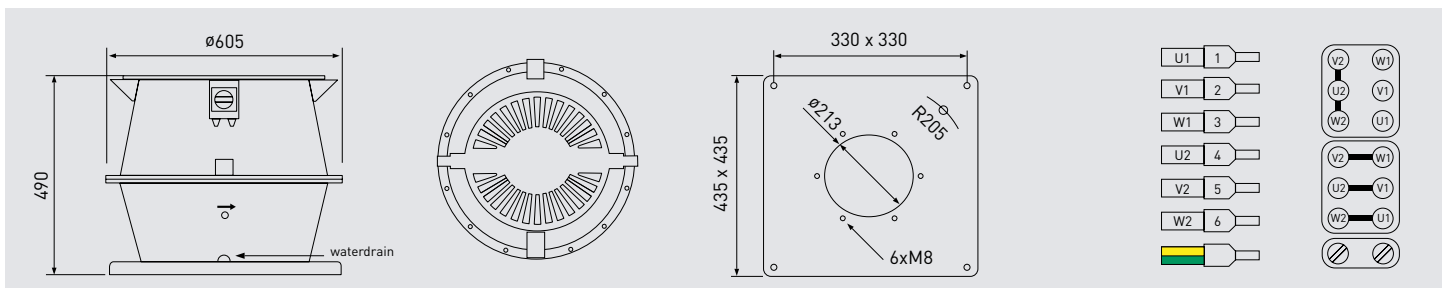
Speed [1/min]	Sound Power Lw5A in dB(A) according to DIN 45635								Motor			
	Suction side- / discharge side; Lw3 = Lw4 [dB]								Lp8A [1 m] [dB(A)]	Motor Power [kW]	Nominal Current [A]400V	Weight [kg]
	63	125	250	500	1000	2000	4000	8000				
<b>160 L</b>												
3000	81	81	90	77	74	70	65	59	72	0,37	1,10	15
1500	68	69	78	64	61	56	50	45	60	0,06	0,35	15
<b>160 M</b>												
3000	82	82	91	78	75	71	66	60	73	0,55	1,60	15
1500	69	70	79	65	62	57	51	46	61	0,09	0,35	15
<b>160 H</b>												
3000	85	85	94	81	78	74	69	63	76	0,55	1,60	15
1500	72	73	82	68	65	60	54	49	64	0,09	0,70	15



# DPN 200 technical specifications



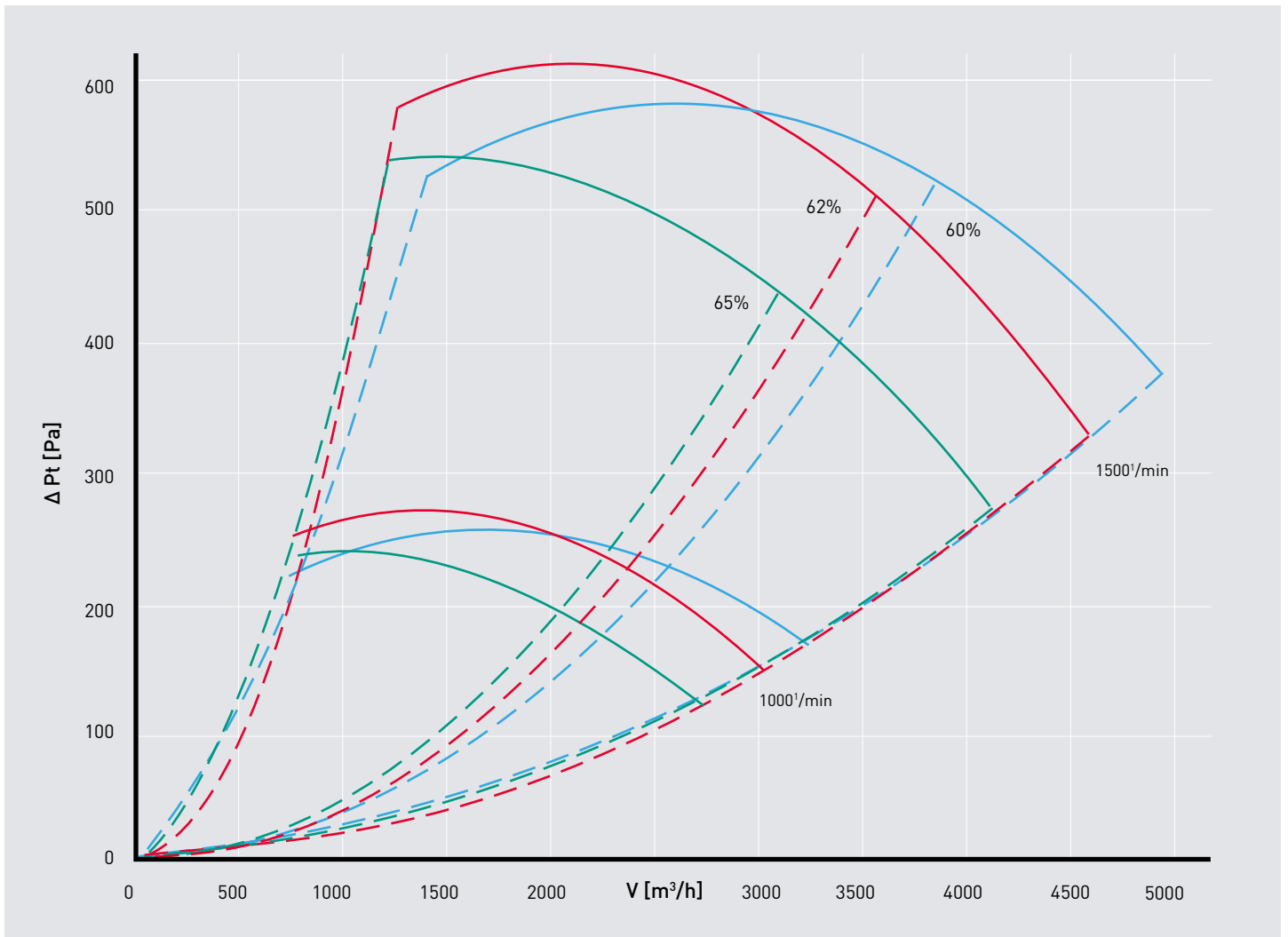
Speed [1/min]	Sound Power Lw5A in dB(A) according to DIN 45635								Motor			
	Suction side- / discharge side; Lw3 = Lw4 [dB]								Lp8A (1 m) [dB(A)]	Motor Power [kW]	Nominal Current [A]400V	Weight [kg]
	63	125	250	500	1000	2000	4000	8000				
<b>200 L</b>												
3000	86	85	94	82	78	74	69	63	77	1,10	2,60	21
1500	73	73	82	69	65	60	54	49	65	0,18	0,75	21
1000	68	68	77	64	60	55	49	44	60	0,12	0,75	21
<b>200 M</b>												
3000	87	86	95	83	79	75	70	64	78	1,50	3,00	21
1500	74	74	83	70	66	61	55	50	66	0,25	0,86	21
1000	69	69	78	65	61	56	50	45	61	0,12	0,75	21
<b>200 H</b>												
3000	90	89	98	86	82	78	73	67	81	2,20	5,20	21
1500	77	77	86	73	69	64	58	53	69	0,25	0,86	21
1000	72	72	81	68	64	59	53	48	64	0,12	0,75	21



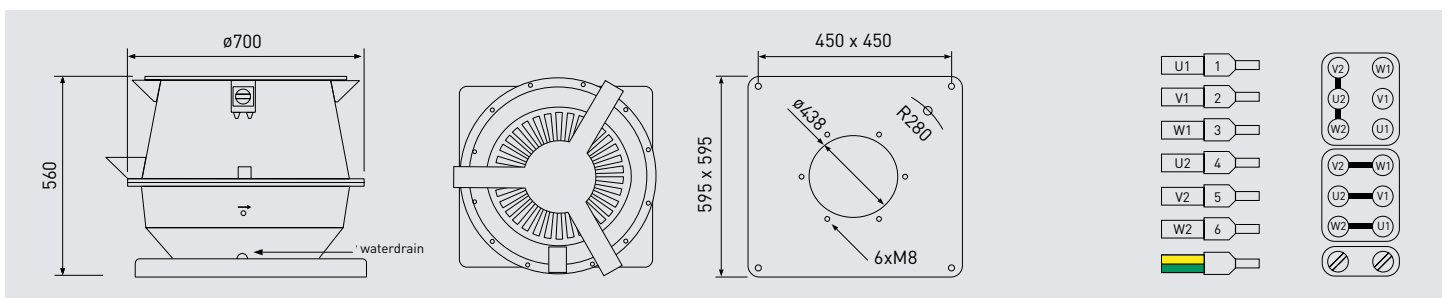




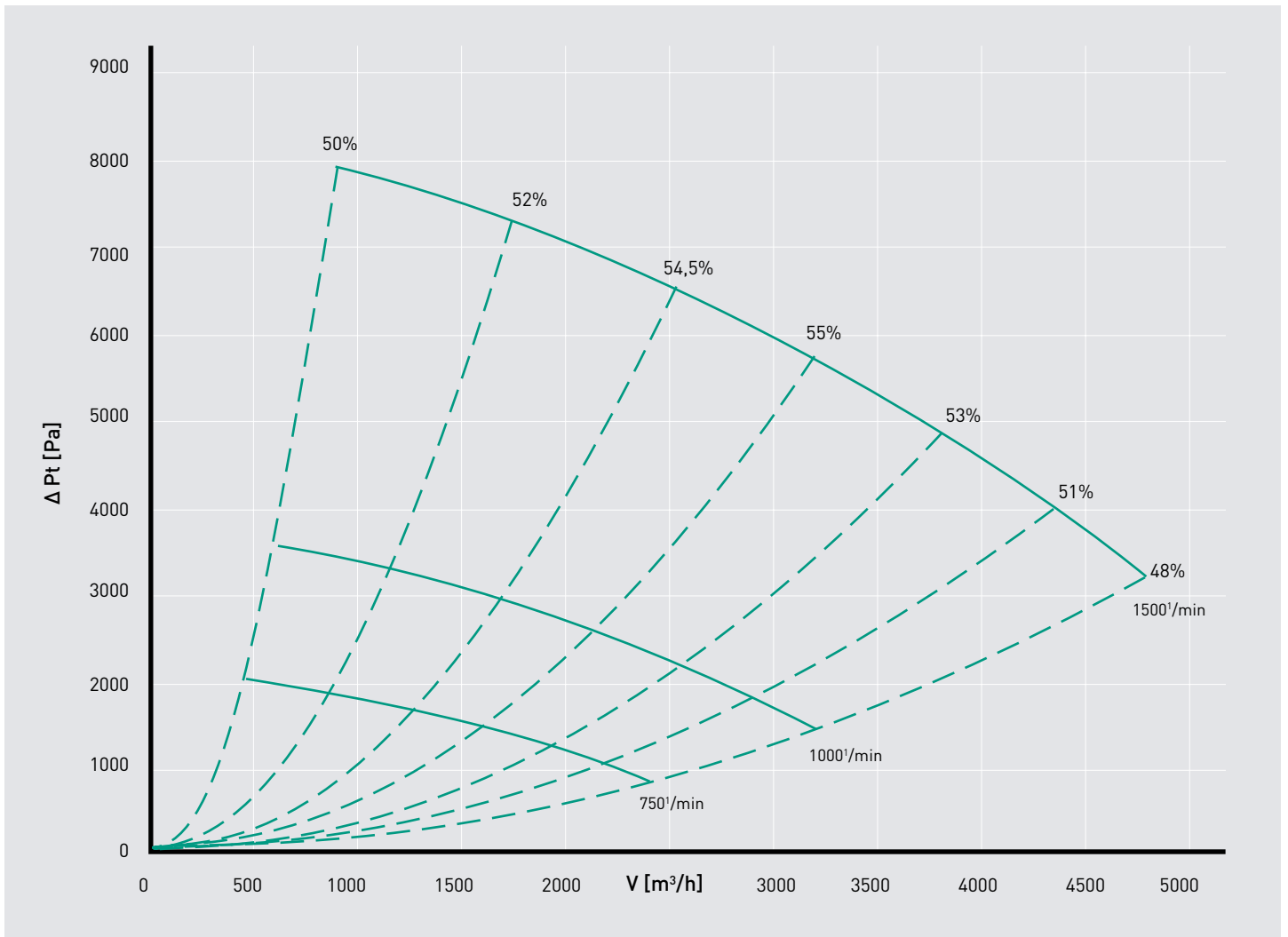
# DPN 280 technical specifications



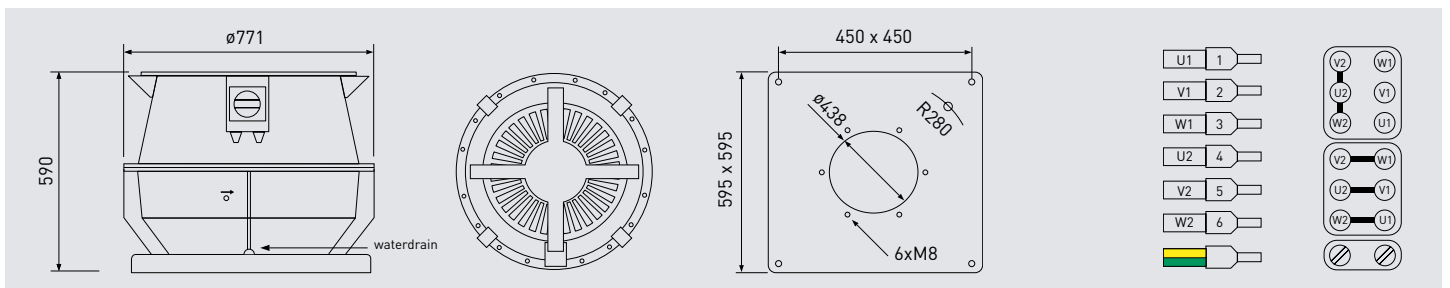
Speed [1/min]	Sound Power Lw5A in dB(A) according to DIN 45635								Lp8A (1 m) [dB(A)]	Motor		
	Suction side- / discharge side; Lw3 = Lw4 [dB]									Motor Power [kW]	Nominal Current [A]400V	Weight [kg]
	63	125	250	500	1000	2000	4000	8000				
<b>280 L</b>												
1500	85	94	82	79	74	69	63	57	72	0,75	2,00	37
1000	80	89	77	74	69	64	58	52	67	0,18	1,00	37
<b>280 M</b>												
1500	86	95	83	80	75	70	64	58	73	1,10	3,30	37
1000	81	90	78	75	70	65	59	53	68	0,25	1,10	37
<b>280 H</b>												
1500	89	98	86	83	78	73	67	61	76	1,10	3,30	37
1000	84	93	81	78	73	68	62	56	71	0,37	1,10	37



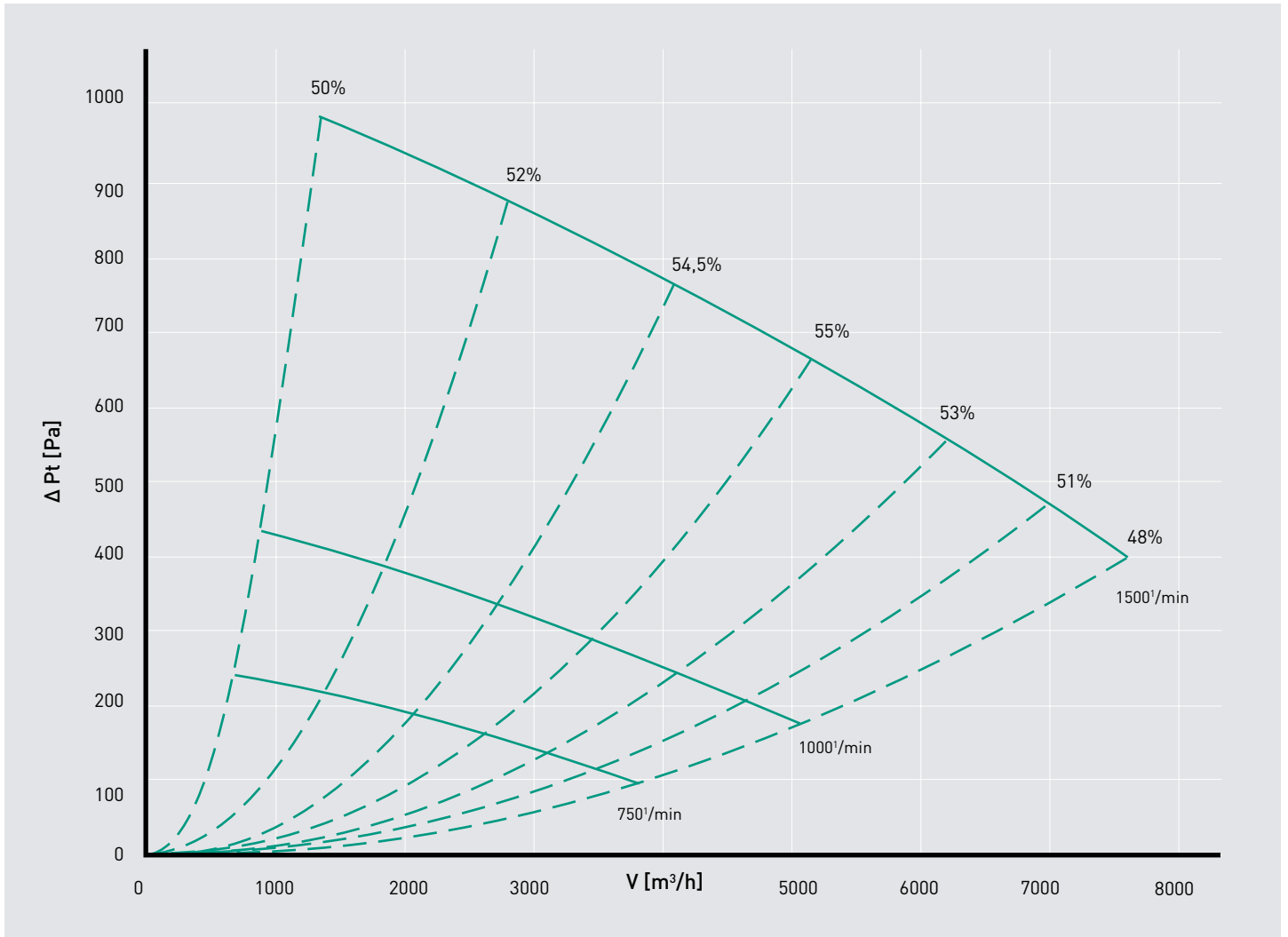
# DPN 315 technical specifications



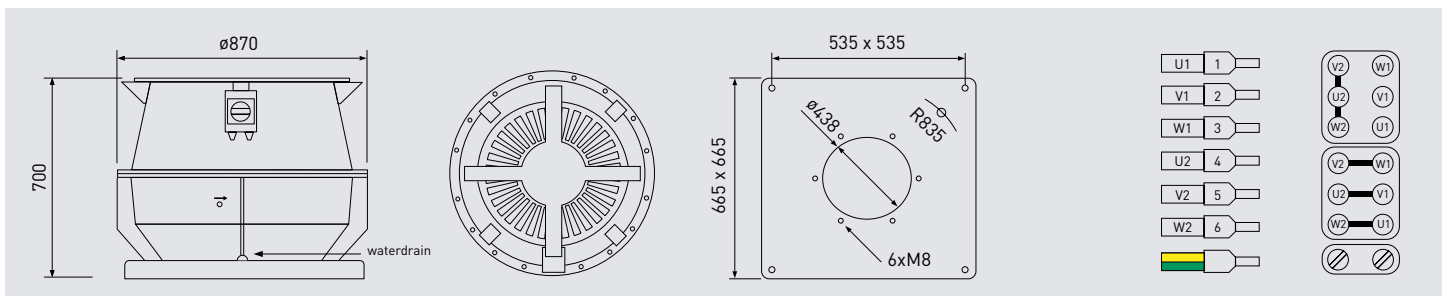
Speed [1/min]	Sound Power Lw5A in dB(A) according to DIN 45635								Motor			
	Suction side- / discharge side; Lw3 = Lw4 [dB]								Lp8A (1 m) [dB(A)]	Motor Power [kW]	Nominal Current [A]400V	Weight [kg]
	63	125	250	500	1000	2000	4000	8000				
	315											
1500	87	85	93	80	67	71	65	58	76	1,10	2,53	55
1000	77	85	73	69	64	59	52	45	63	0,37	1,30	55
750	72	80	67	63	58	52	45	37	57	0,18	0,90	55



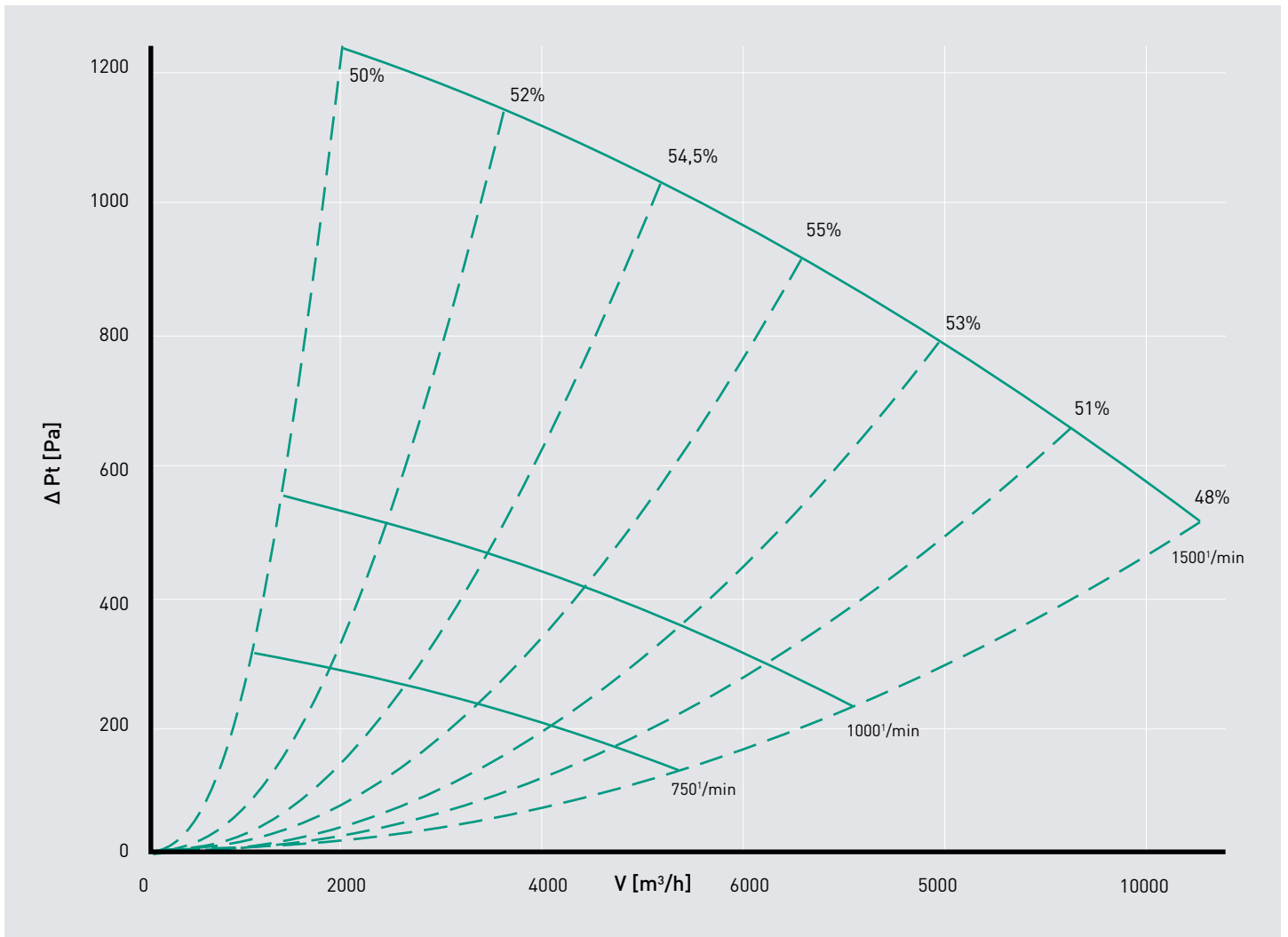
# DPN 355 technical specifications



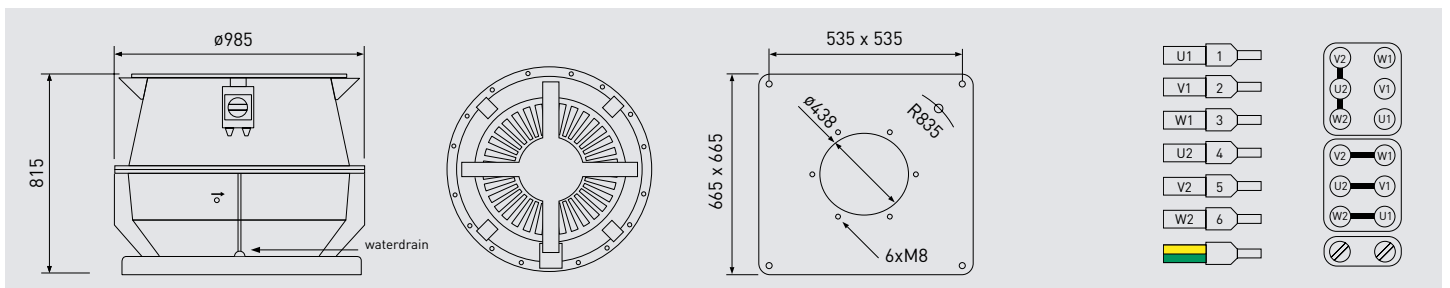
Speed [l/min]	Sound Power Lw5A in dB(A) according to DIN 45635								Motor			
	Suction side- / discharge side; Lw3 = Lw4 [dB]								Lp8A [1 m] [dB(A)]	Motor Power [kW]	Nominal Current [A]400V	Weight [kg]
	63	125	250	500	1000	2000	4000	8000				
	355											
1500	89	87	95	82	78	73	67	60	78	2,20	4,64	75
1000	79	87	75	71	66	61	54	47	65	0,55	1,80	75
750	74	82	69	65	59	54	47	39	59	0,25	1,10	75



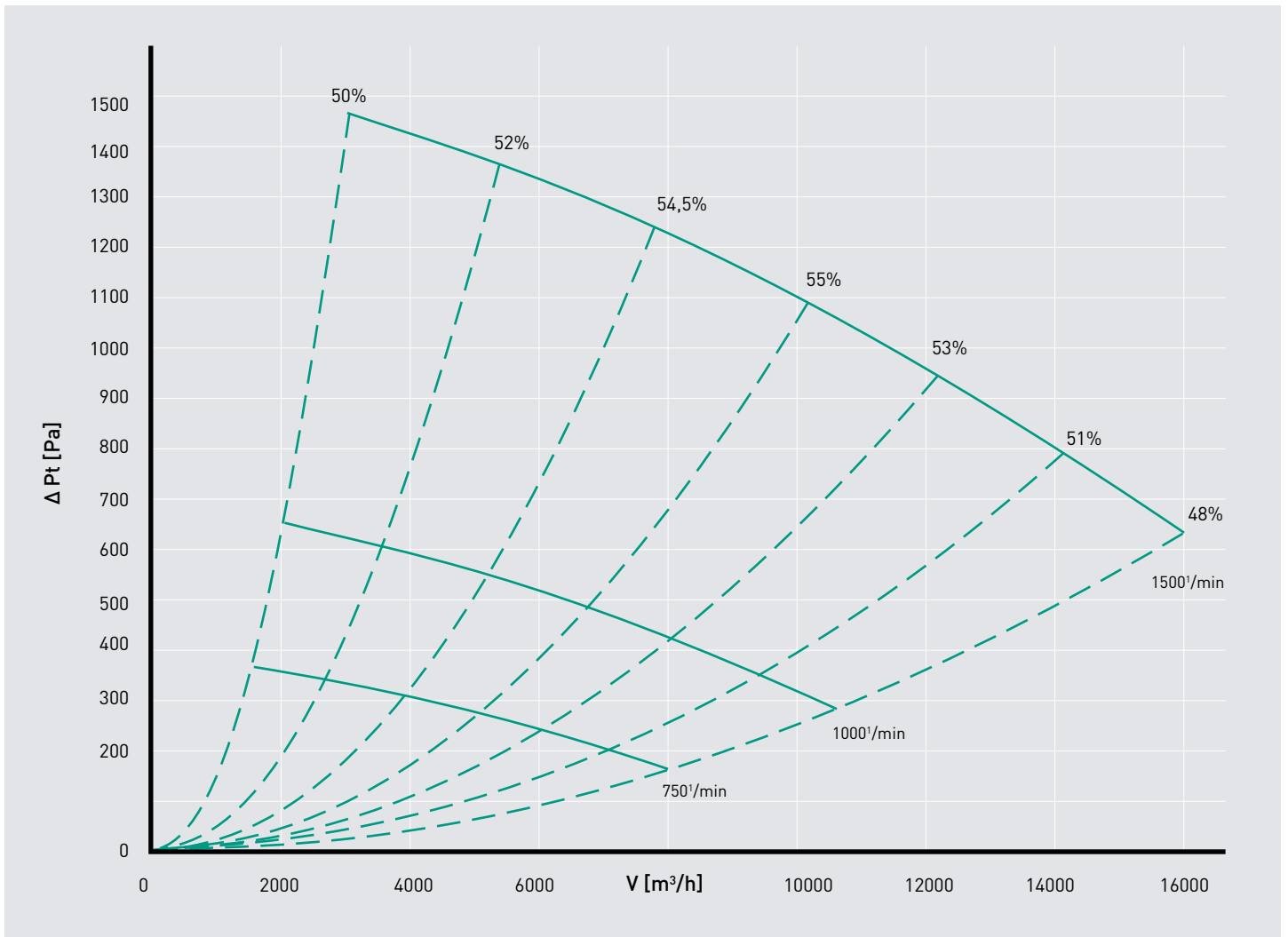
# DPN 400 technical specifications



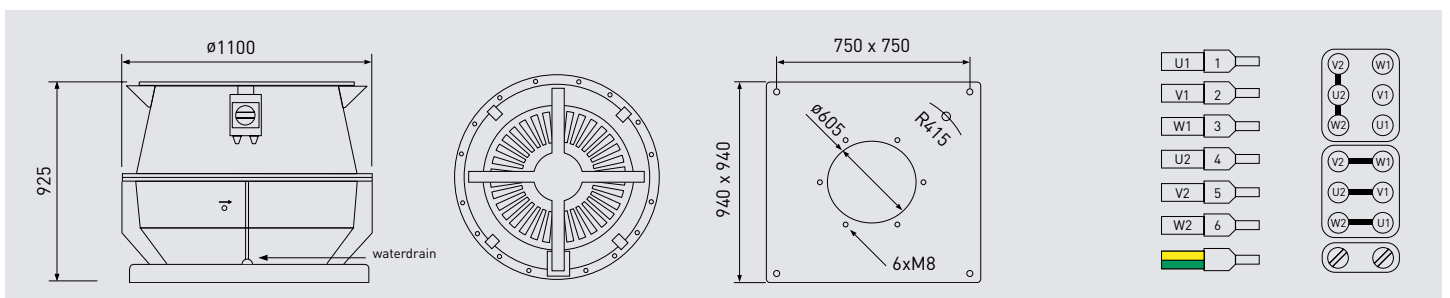
Speed [1/min]	Sound Power Lw5A in dB(A) according to DIN 45635								Motor			
	Suction side- / discharge side; Lw3 = Lw4 [dB]								Lp8A [1 m] [dB(A)]	Motor Power [kW]	Nominal Current [A]400V	Weight [kg]
	63	125	250	500	1000	2000	4000	8000				
	400											
1500	92	90	98	85	81	76	70	63	81	4,00	8,12	85
1000	82	90	77	74	69	63	57	50	68	1,10	2,82	85
750	77	85	71	67	62	56	49	42	62	0,55	2,20	85



# DPN 450 technical specifications



Speed [1/min]	Sound Power Lw5A in dB(A) according to DIN 45635								Lp8A (1 m) [dB(A)]	Motor		
	Suction side- / discharge side; Lw3 = Lw4 [dB]									Motor Power [kW]	Nominal Current [A]400V	Weight [kg]
	63	125	250	500	1000	2000	4000	8000				
450												
1500	97	95	104	96	85	79	73	63	83	7,50	14,50	105
1000	85	88	85	76	72	66	60	53	72	1,50	3,61	105
750	79	87	73	69	64	58	51	44	64	0,75	2,40	105





# DPN overview

Dimension	Type	Speed [1/min]	Flow [m³/h]	Total Pressure [Pa]	Motor Power [kW]	Nominal Current [A]400V	Weight [kg]
DPN 110	L	1500	50-350	80-60	0,06	0,70	7
		3000	150-670	330-240	0,18	0,60	
DPN 125	L	1500	100-350	110-50	0,06	0,35	8
		3000	200-690	400-280	0,09	0,36	
	M	1500	100-400	120-60	0,06	0,35	
		3000	250-770	450-230	0,12	0,50	
	H	1500	100-420	110-70	0,06	0,60	
		3000	300-830	425-260	0,18	0,70	
DPN 160	L	1500	220 - 800	180 - 100	0,06	0,35	15
		3000	430 - 1600	710 - 370	0,37	1,10	
	M	1500	220 - 850	220 - 120	0,09	0,35	
		3000	420 - 1800	800 - 440	0,55	1,60	
	H	1500	280 - 1000	200 - 130	0,09	0,70	
		3000	700 - 1900	760 - 500	0,55	1,60	
DPN 200	L	1000	350 - 1100	140 - 80	0,12	0,75	21
		1500	500 - 1700	310 - 180	0,18	0,75	
		3000	1000 - 3300	1180 - 700	1,10	2,60	
	M	1000	300 - 1250	150 - 100	0,12	0,75	
		1500	500 - 1900	350 - 220	0,25	0,86	
		3000	950 - 3700	1350 - 820	1,50	3,00	
	H	1000	300 - 1400	150 - 100	0,12	0,75	
		1500	500 - 2000	340 - 250	0,25	0,86	
		3000	1400 - 4000	1270 - 900	2,20	5,20	
DPN 250	L	1000	600 - 1800	190 - 80	0,12	0,75	35
		1500	800 - 2700	440 - 200	0,37	1,20	
	M	1000	500 - 2200	220 - 110	0,18	1,00	
		1500	800 - 3300	500 - 250	0,55	1,70	
	H	1000	450 - 2300	200 - 130	0,25	1,10	
		1500	900 - 3500	460 - 300	0,55	1,70	
DPN 280	L	1000	800 - 2700	240 - 120	0,18	1,00	37
		1500	1200 - 4100	550 - 270	0,75	2,00	
	M	1000	700 - 3000	260 - 150	0,25	1,10	
		1500	1200 - 4600	620 - 330	1,10	3,30	
	H	1000	600 - 3200	210 - 160	0,37	1,10	
		1500	1400 - 4900	520 - 380	1,10	3,30	
DPN 315	L	750	500 - 2400	200 - 80	0,18	0,90	55
		1000	600 - 3200	350 - 150	0,37	1,30	
		1500	900 - 4800	800 - 310	1,10	2,53	
DPN 355	L	750	600 - 3800	250 - 100	0,25	1,10	75
		1000	900 - 5000	440 - 180	0,55	1,80	
		1500	1300 - 7500	980 - 400	2,20	4,64	
DPN 400	L	750	1000 - 5500	300 - 120	0,55	2,20	85
		1000	1400 - 7400	540 - 220	1,10	2,82	
		1500	2000 - 11000	1200 - 500	4,00	8,12	
DPN 450	L	750	1500 - 8000	370 - 150	0,75	2,40	105
		1000	2000 - 10600	650 - 280	1,50	3,61	
		1500	3000 - 16000	1480 - 650	7,50	14,50	
DPN 500	L	750	2000 - 11000	450 - 200	2,20	5,90	125
		1000	3000 - 14700	800 - 370	5,00	12,00	
		1500	4500 - 22000	1830 - 850	15,00	29,60	

SWIMMINGPOOL



INDUSTRY



MEDICAL



RENOVATION



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