



United Technologies

PRODUCT DATA

# 40LMA

## 50Hz Chilled Water Fan Coil Unit with EC Motor Option

Cooling Capacity: 73kW~26.5kW



CERTIFIED TO ISO 9001:2008  
REG. NO. 0239AR

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# Module Number Nomenclature

4 0 L M A 0 2 4 - - - 7 0 0 2 5

## UNIT SIZE

024  
040  
060  
080

## UNIT VERSION

**0** - Unit with AC Motor  
**E** - Unit with EC Motor

## CONNECTION

Standard - Left Handling (LH)  
**R** Right Handling (RH)  
**S** LH + stainless steel drain pan  
Special **T** RH + stainless steel drain pan

## FILTER OPTIONS

Standard - Without filter track media  
Special **A** Half inch filter  
**1** 1 inch filter

## COIL TYPE

Standard - 4 row Chilled Water  
Special **6** 6 row Chilled Water  
**J** 4R Chilled Water + 1R Hot Water  
**K** 6R Chilled Water + 1R Hot Water



### **FAN COIL SELECTION PROGRAM**

We have made available a computer program to finalize your selections. Please contact your Carrier representative for a computer selection based on your "Quick Selection" plus the design parameters on your application.

# Features & Benefits

Any room, every room flexibility in an air conditioning system.

This range of 40LMA Fan Coil Units are designed to be used with chilled and optional hot water. These units incorporate high performance qualities and versatility with space saving advantages.

The 40LMA units have a clean appearance and are designed with flexibility in mind. This allows for almost any plant room configuration or ceiling space application. A nominal cooling capacity range of 7 kW to 26 kW is available for the 40LMA units.

All units have forward curved direct drive fans. These are purposely selected to maintain the lowest possible fan outlet velocity, whilst ensuring the selection point remains in the stable operating area of the fan curve. This guarantees the customer a quiet and stable air distribution with predictable fan performance.

The standard unit is constructed from galvanized steel with 25mm polyurethane of 20kg/m<sup>3</sup> density laminated with aluminum foil heat seal insulation. This type of insulation will protect the unit from excessive noise and thermal bridging.

## Standard Features

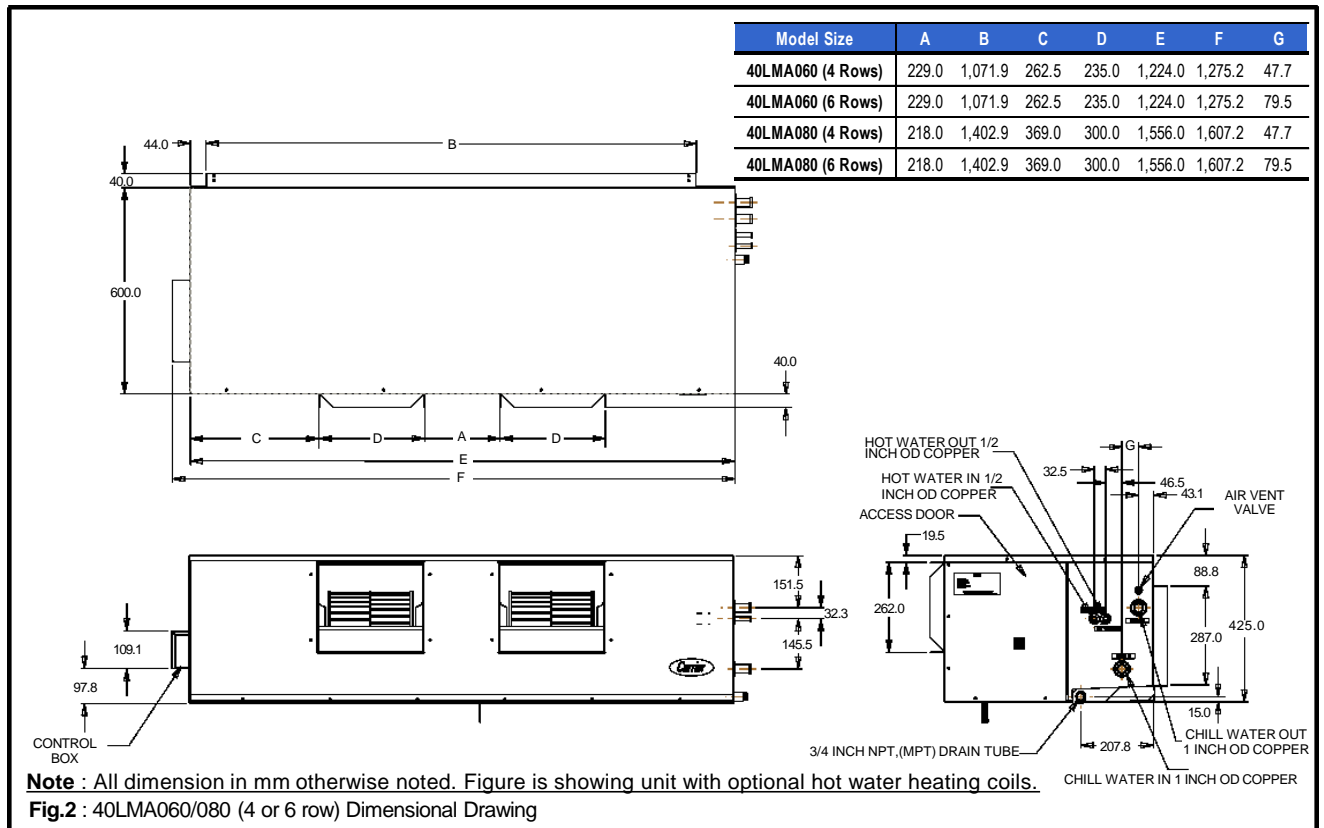
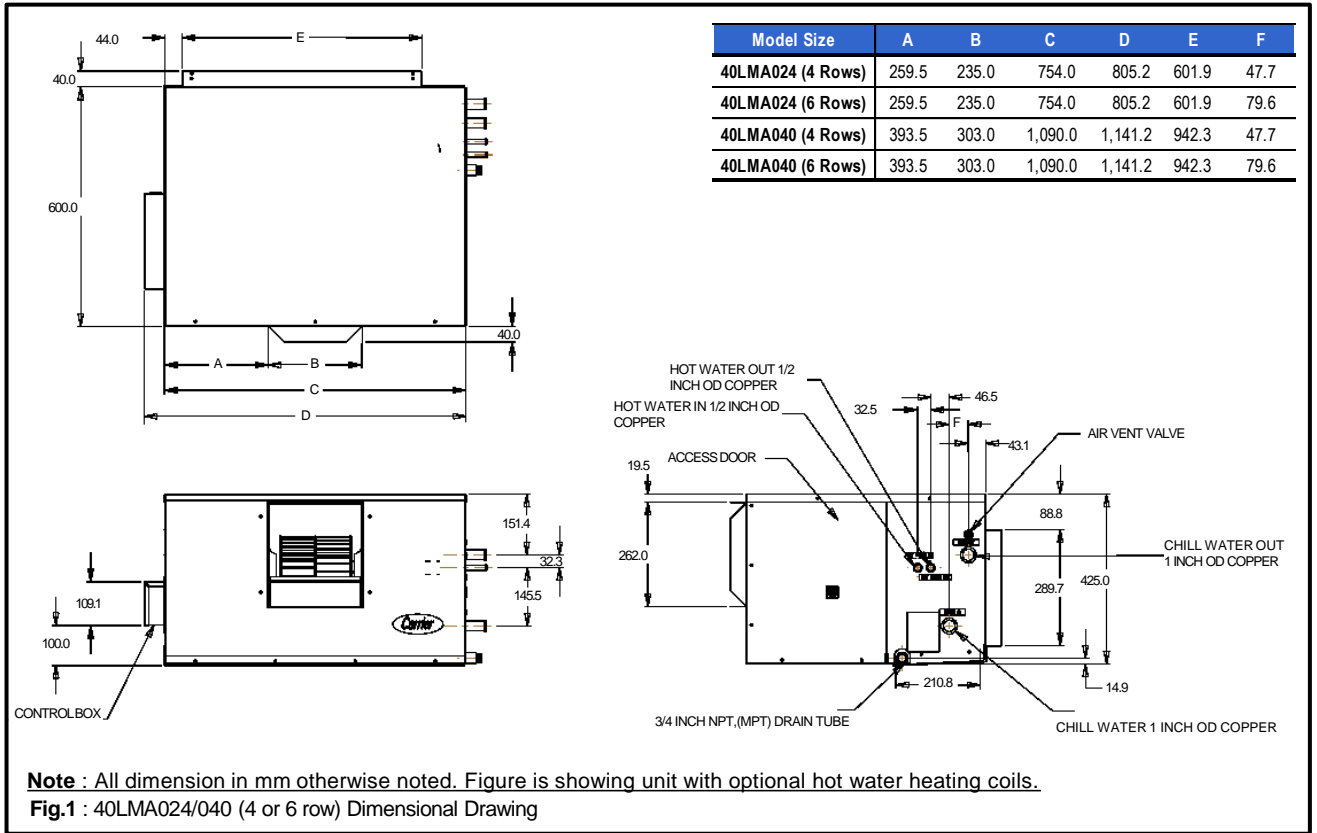
- 4 row cooling coils.
- Direct drive fans.
- 25mm aluminum foil faced PU lining.
- Condensate drain pan of powder coated galvanized steel with PE insulation.
- Horizontal front configuration.
- Left or right piping connection available.
- Easy access panel – maximum serviceability.

## Optional Features

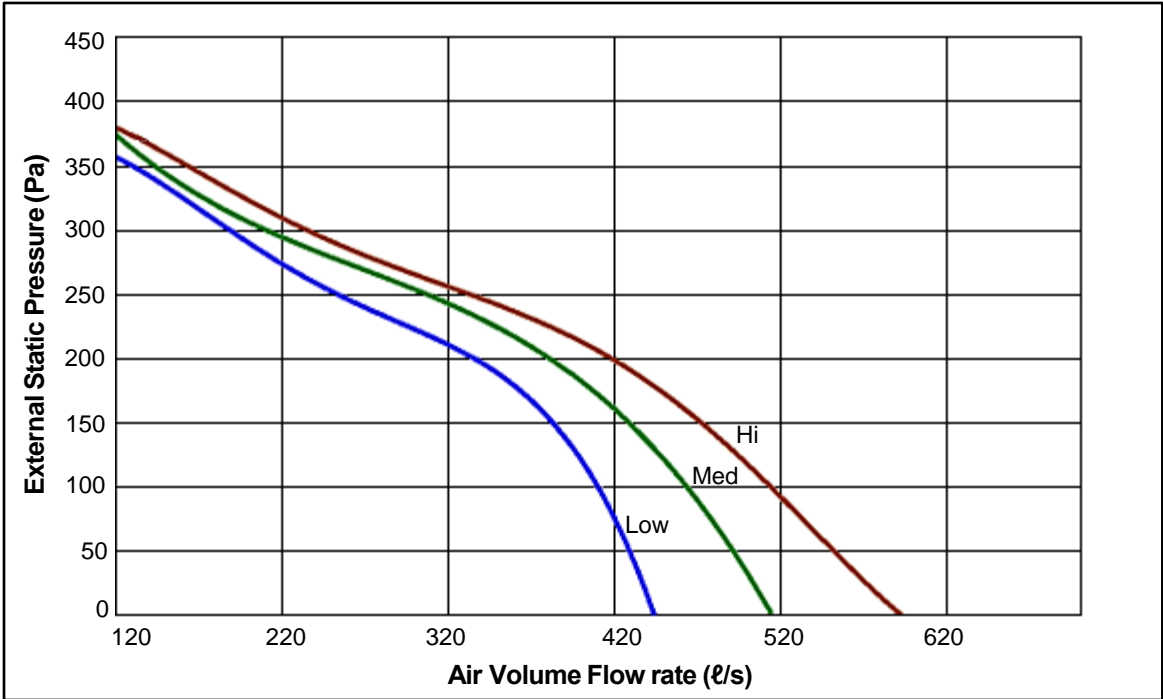
- 6 row cooling coils.
- Hot water coils.
- Return air filter media 12mm EU2 or 25mm EU3 add-on frame.
- Stainless steel condensate drain pan with PE insulation.
- EC Motor.

MODEL		40LMA024	4LMA040	40LMA060	40LMA080						
Coil	Chilled Water	Type	Copper Tube, Aluminium Fin								
		Nominal Capacity	kW	7.3	10.5	12.0	14.9	17.7	20.5	23.6	26.5
			Btu/h	24,898	35,984	40,968	50,753	60,480	70,027	80,733	90,405
		Face Area	$m^2$	0.19		0.29		0.33		0.43	
		No. of Rows		4	6	4	6	4	6	4	6
		Fin Type		Lanced Sine Wave Plate Fins							
		Fins/Meter		472							
	Hot Water (Optional)	Type	Copper Tube, Aluminium Fin								
		Nominal Capacity	kW	10.1		17		21.5		28.6	
		Faced Area	$m^2$	0.19		0.29		0.33		0.43	
		No. of Rows		1							
		Fin Type		Double Wavy Plate Fins							
		Fins/Meter		472							
	Air Flow Range		$l/s$	400~600		600~800		800~1000		1000~1400	
Fan Motor	Type	Permanent Split Capacitor									
	Quantity	1									
	Power Output	watt	315		462		750		800		
	Speed		3-Speed								
Power Source		V-Ph-Hz	240-1-50								
Min~Max Voltage		Volt	207~253								
Connection	Supply (Chilled Water)		25.4mm (1")								
	Return (Chilled Water)		25.4mm (1")								
	Drain		19mm (3/4") male NPT								
Dimension	WxDxH	mm	754 x 600 x 425		1090 x 600 x 425		1224 x 600 x 425		1556 x 600 x 425		
Operating Weight		Kg	41.0	43.3	56.5	59.5	61.5	65.5	80.0	86.0	
EC Fan Motor Option	Type	Brushless DC Motor with Electronic Controller									
	Quantity	1									
	Power Output Watt		375				800				
	Full Load Amps		3.23				6.57				
	Speed		Multi Speed								

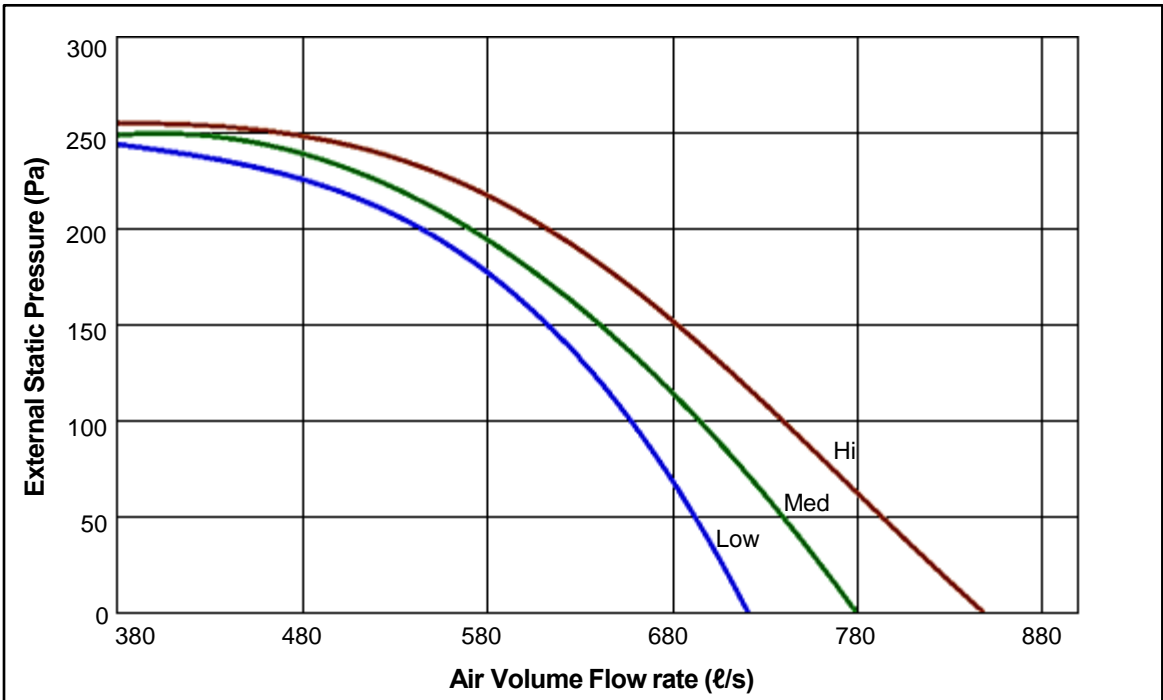
# Physical Dimension



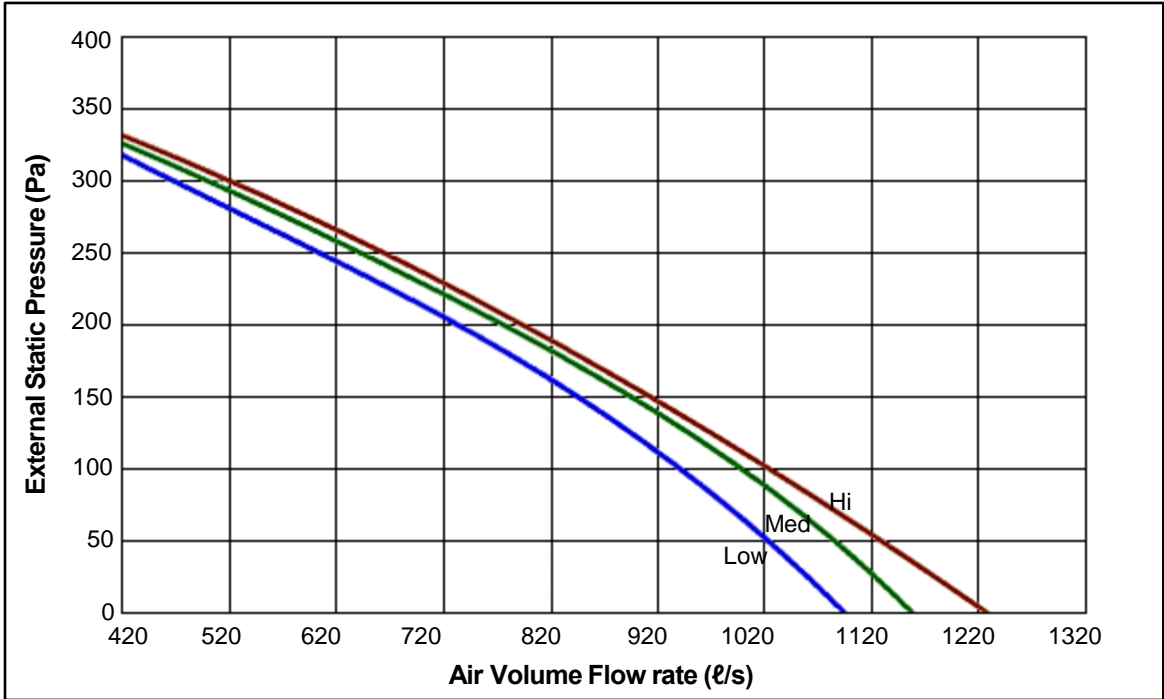
**40LMA024 with AC MOTOR**



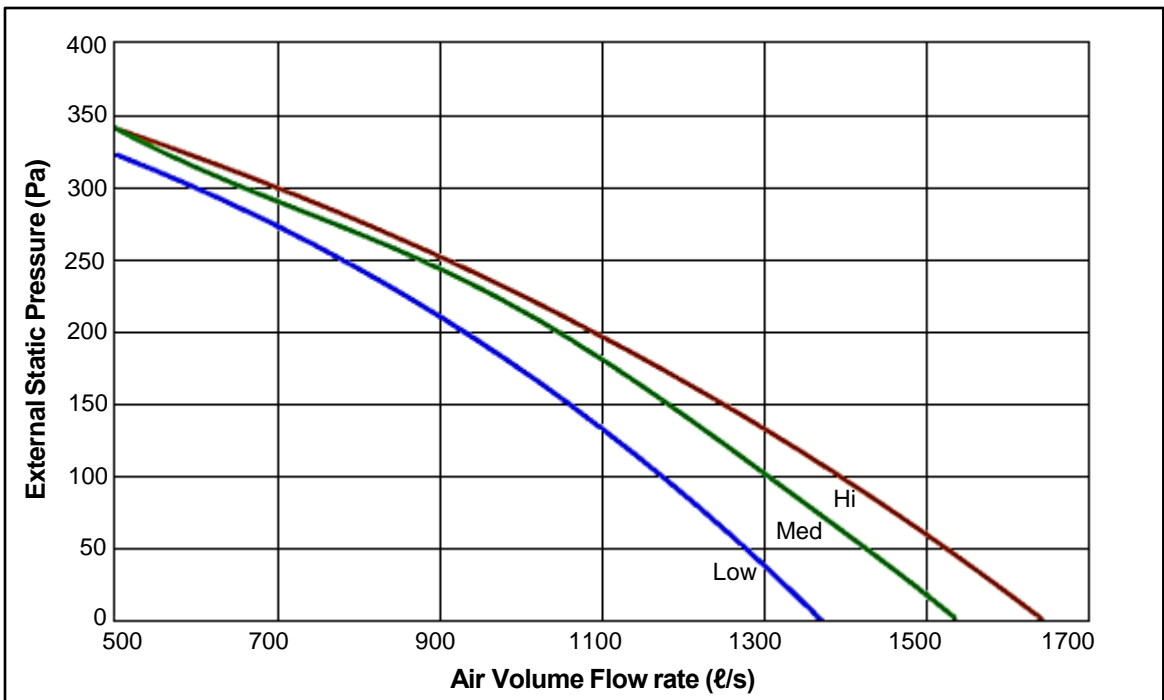
**40LMA040 with AC MOTOR**



**40LMA060 with AC MOTOR**

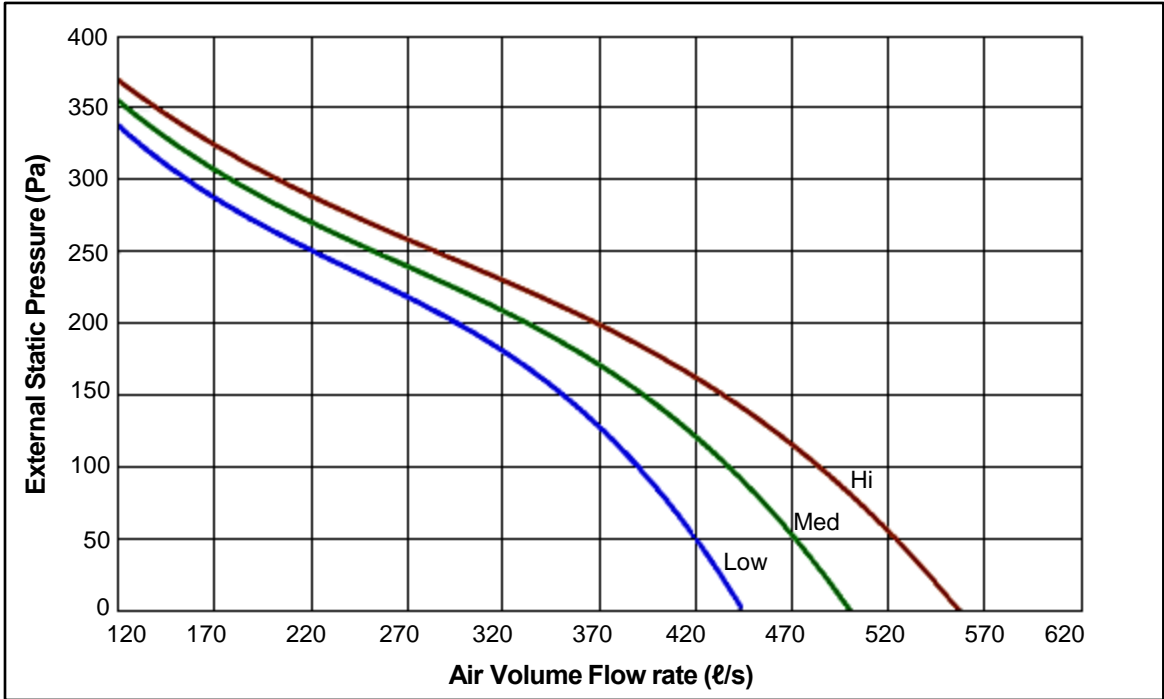


**40LMA080 with AC MOTOR**

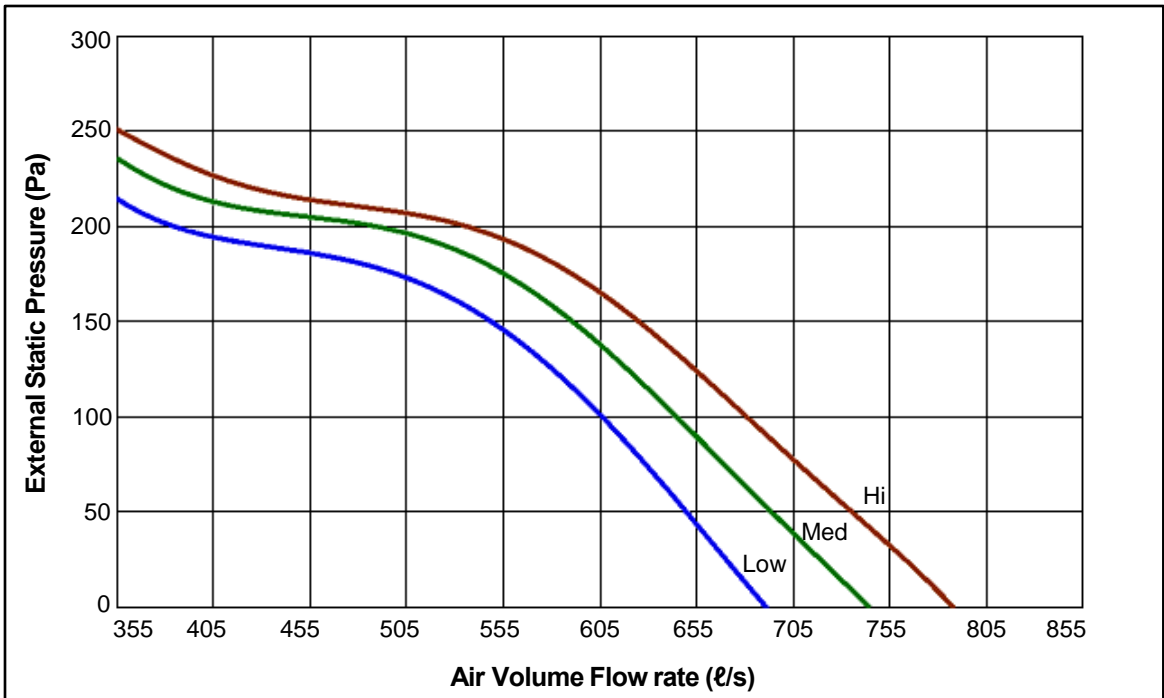




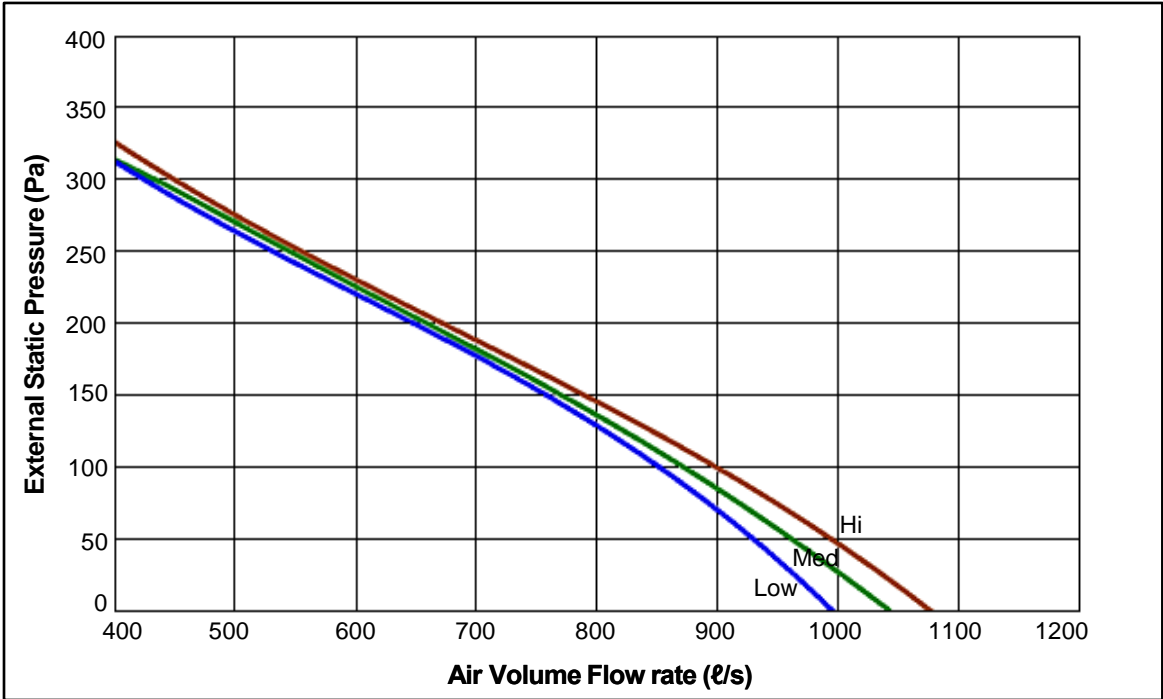
**40LMA024 with AC MOTOR**



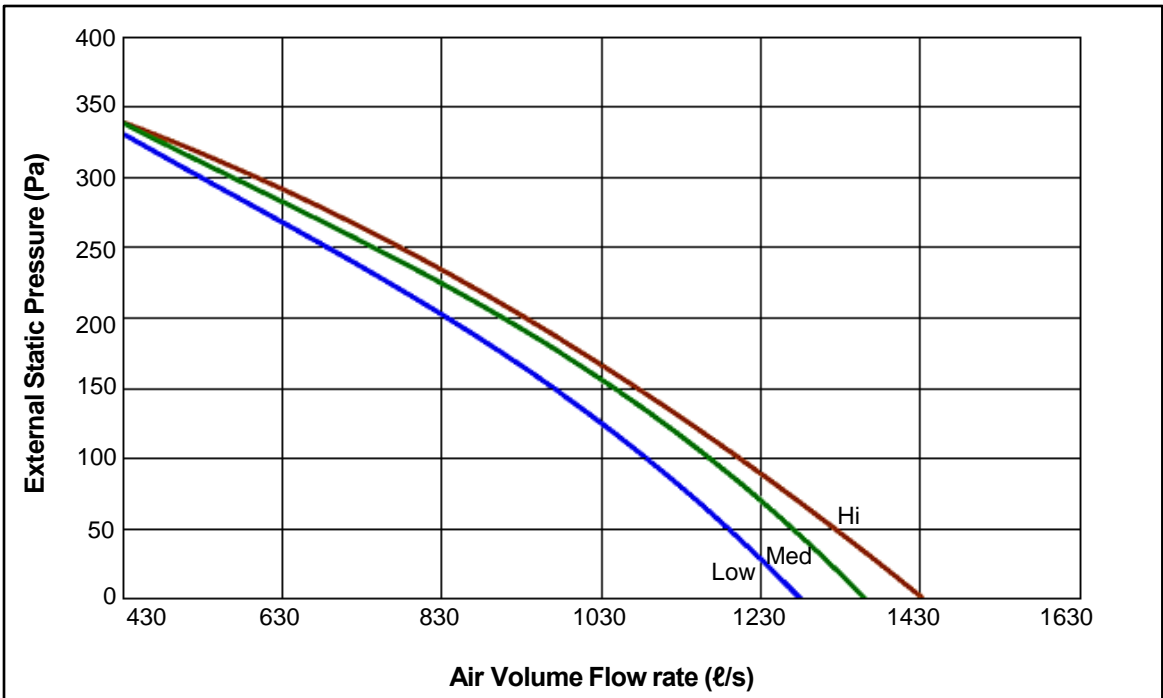
**40LMA040 with AC MOTOR**



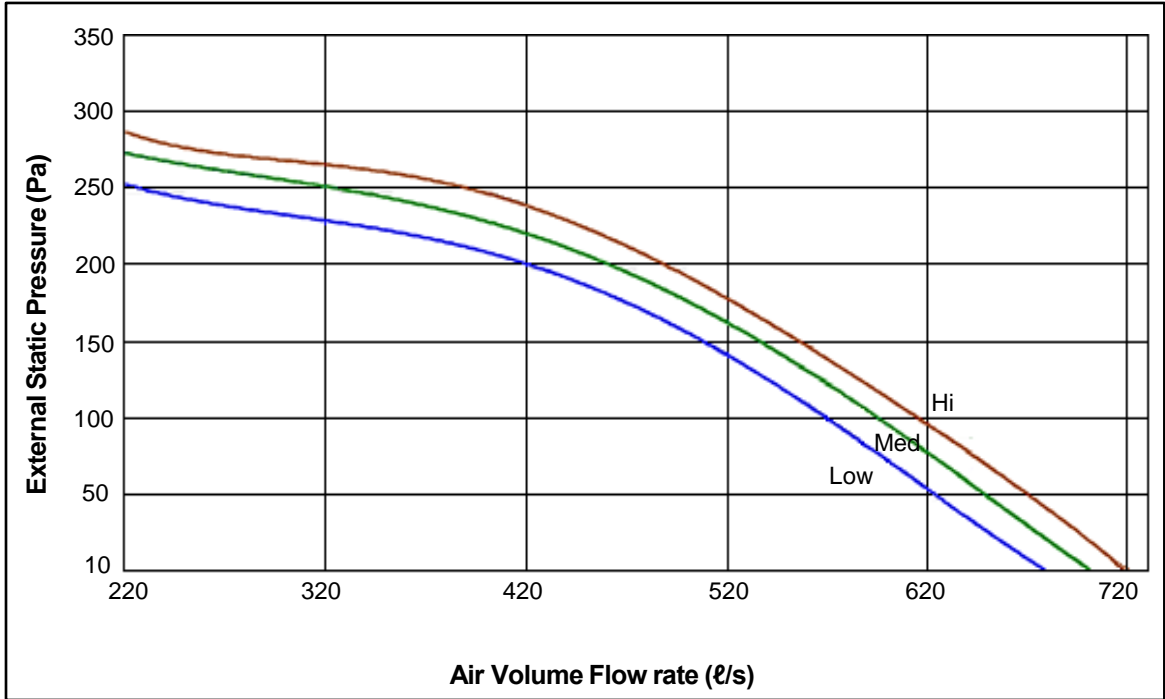
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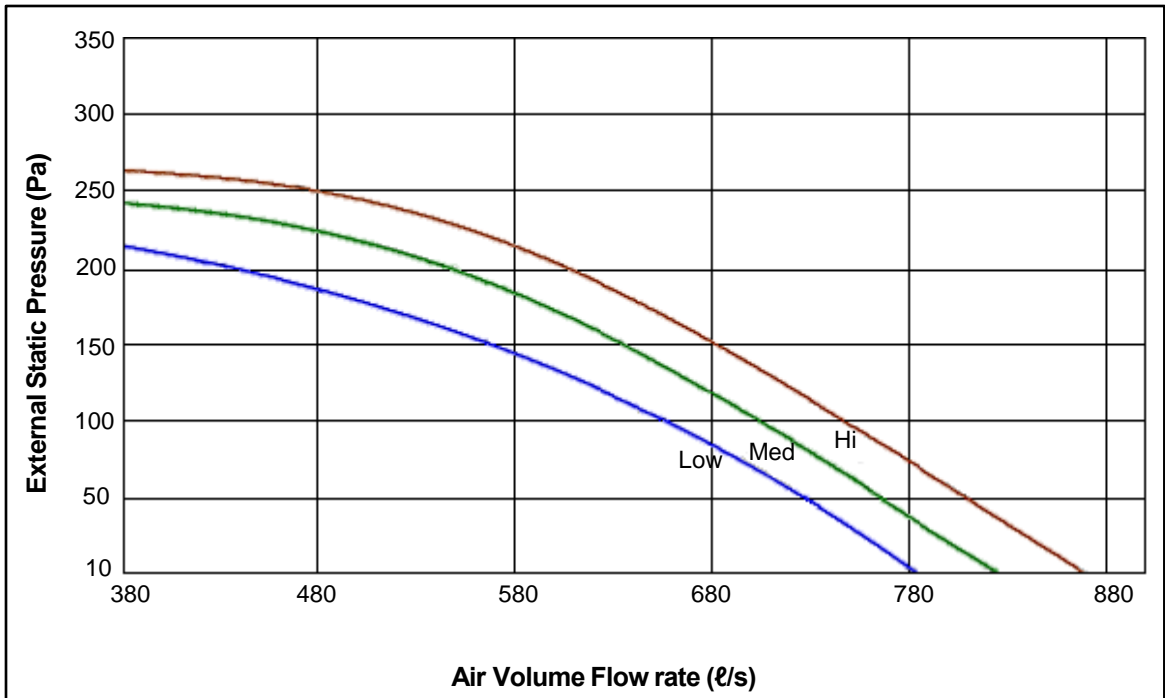
**40LMA080 with AC MOTOR**



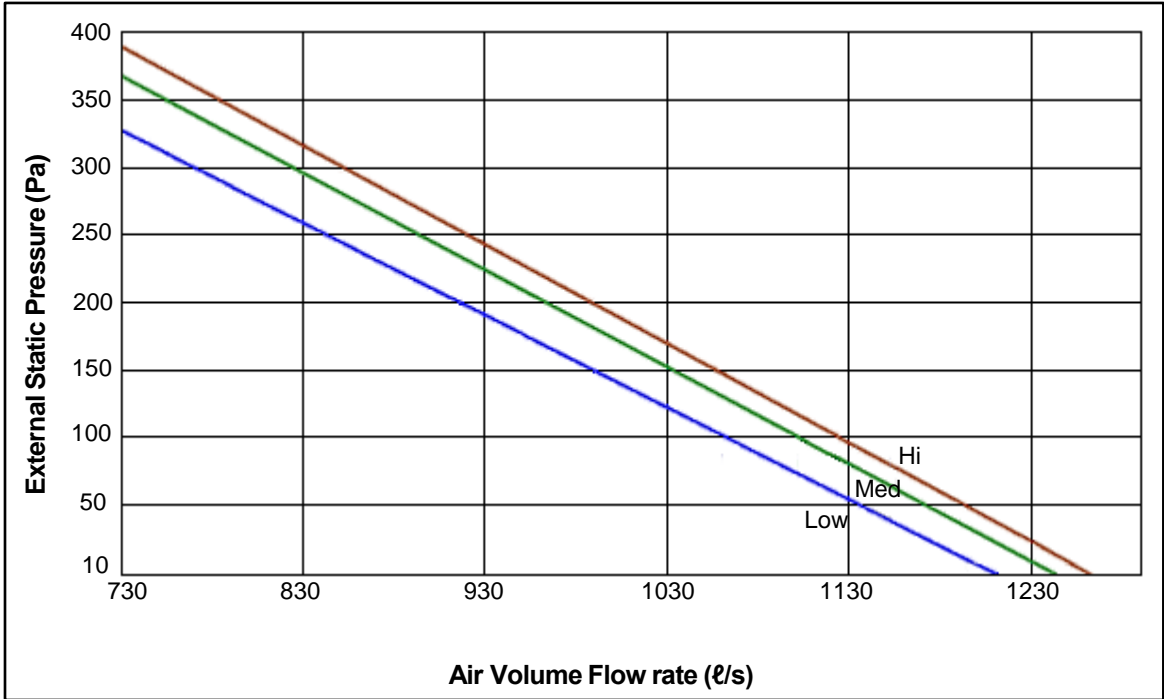
**40LMA024 with EC MOTOR**



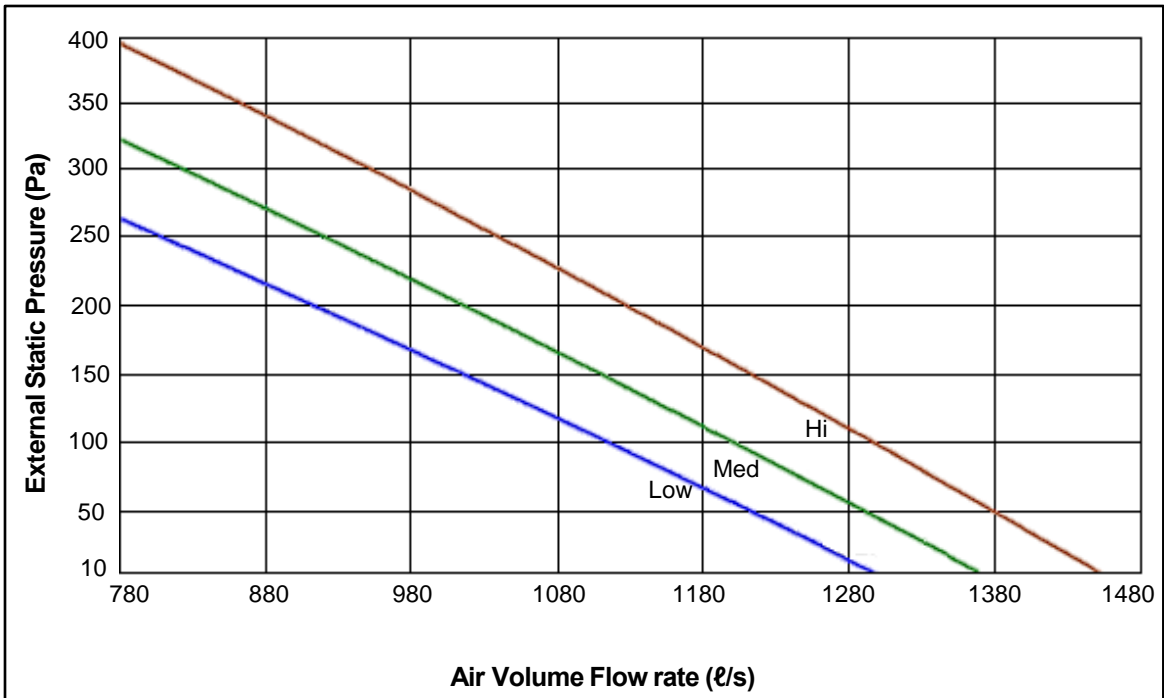
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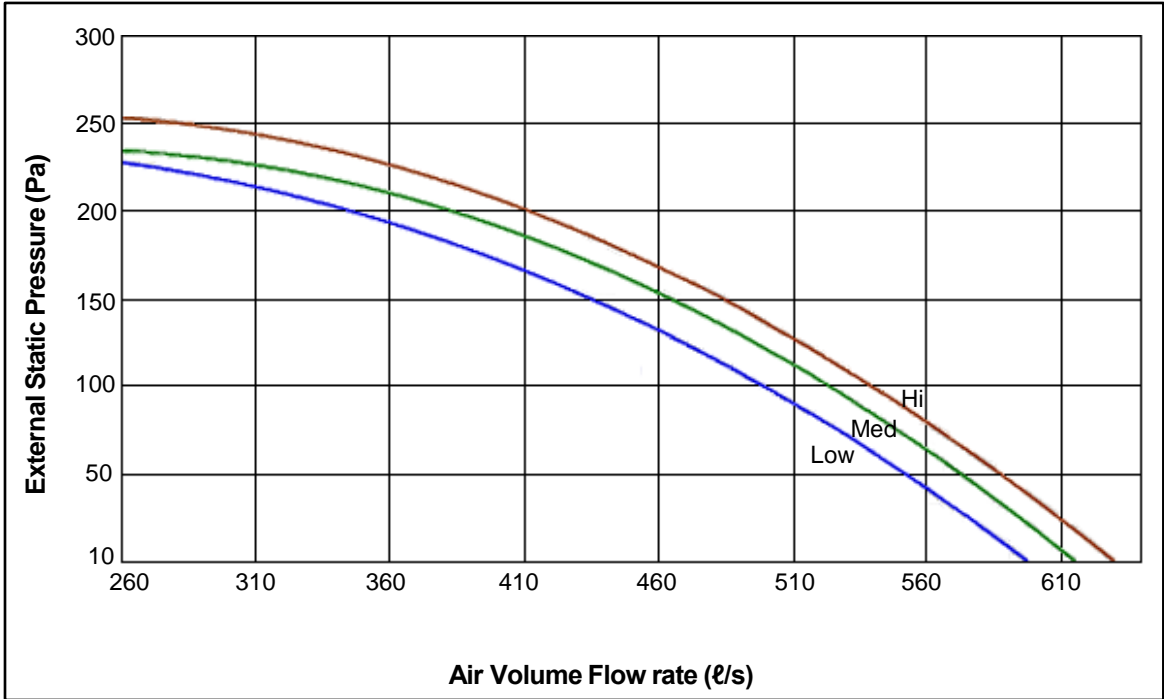
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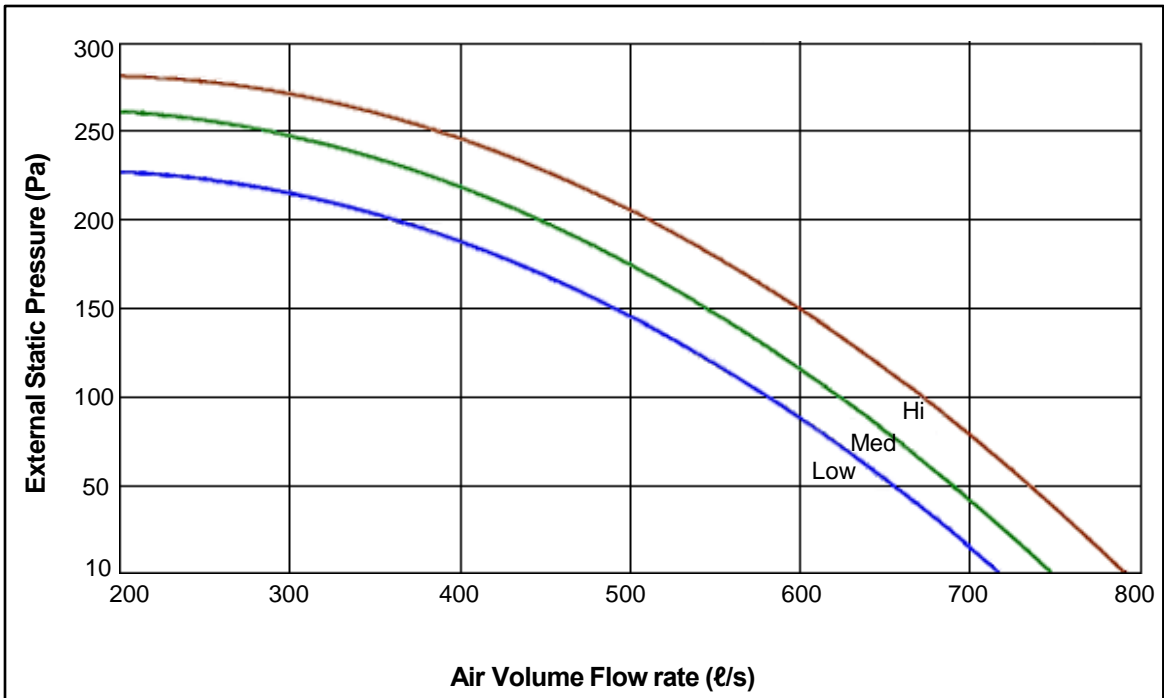
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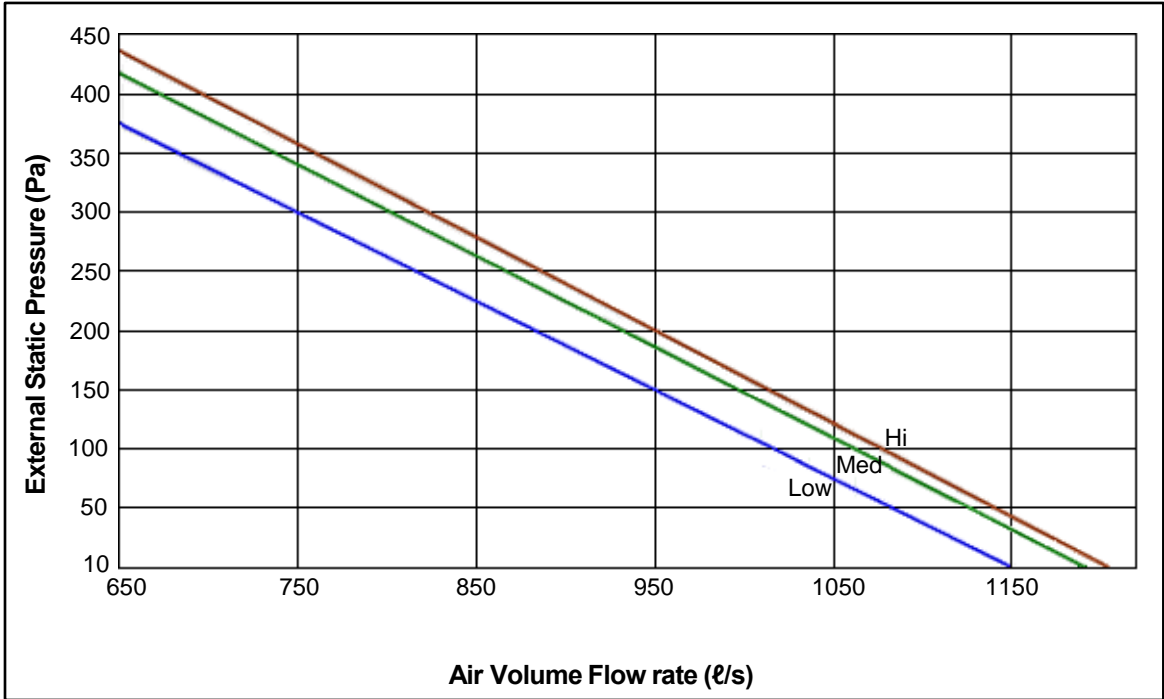
**40LMA024 with EC MOTOR**



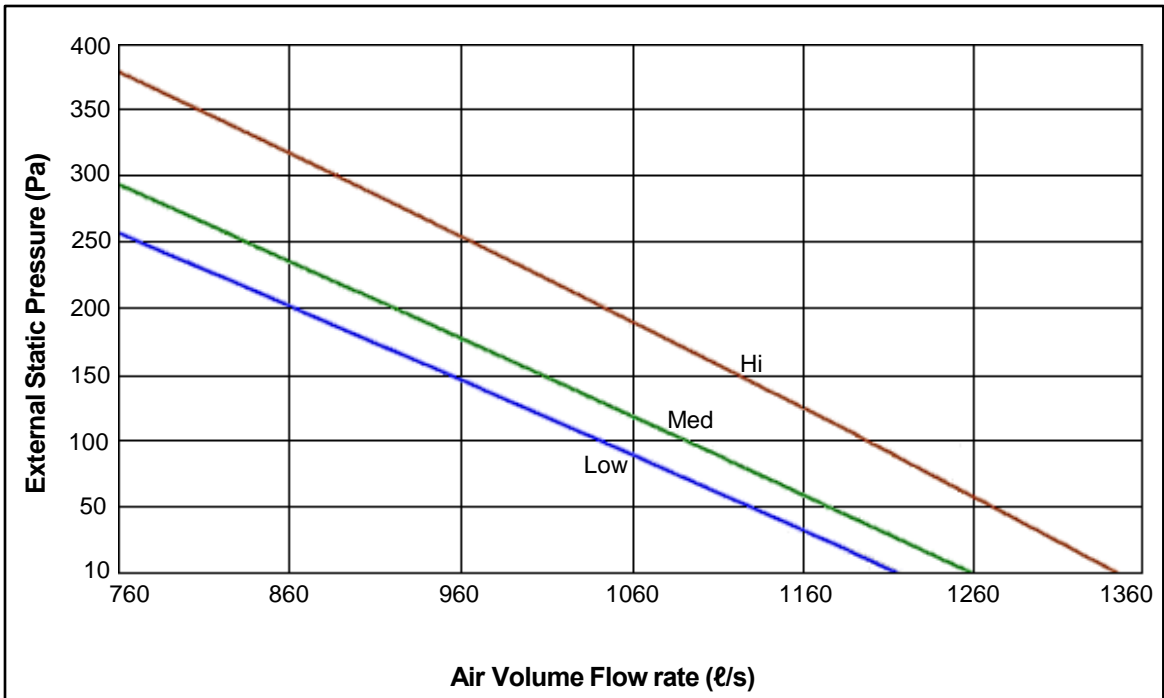
**40LMA040 with EC MOTOR**



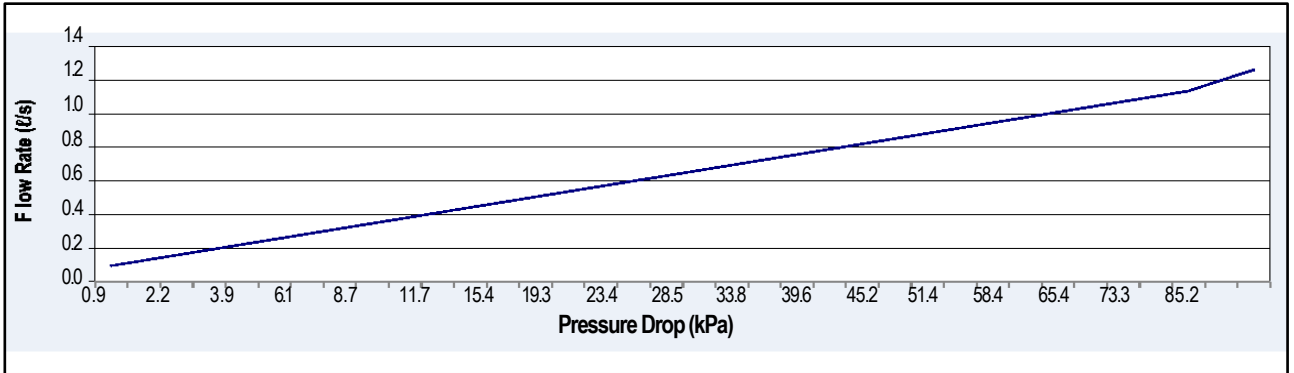
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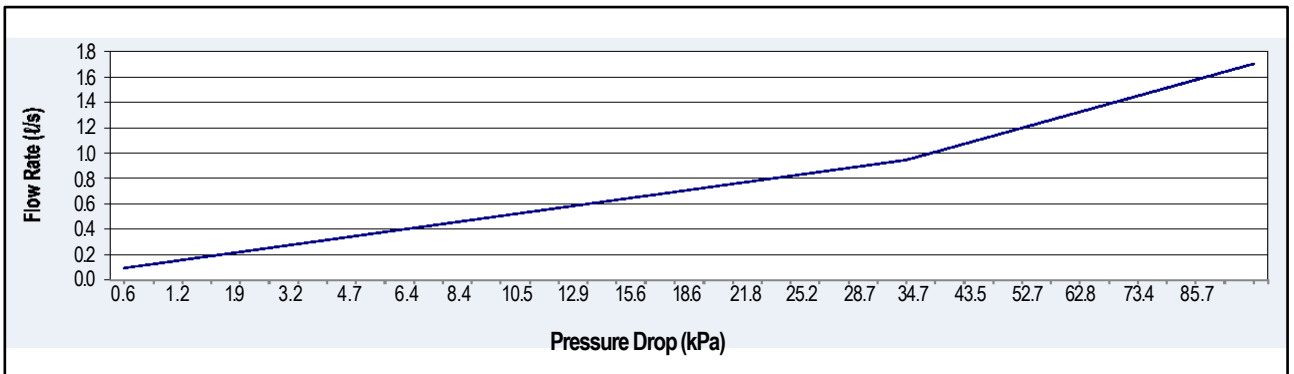
**40LMA080 with EC MOTOR**



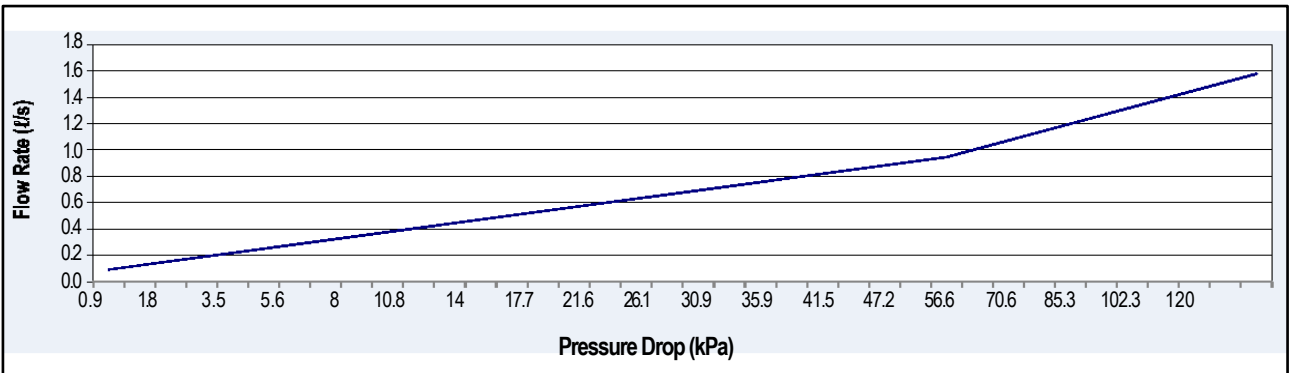
**40LMA024 with AC & EC MOTOR**



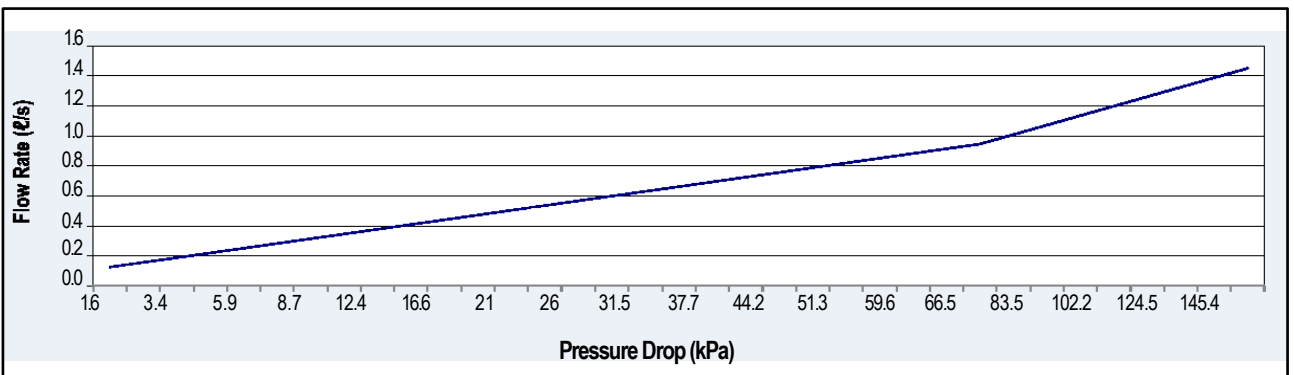
**40LMA040 with AC & EC MOTOR**



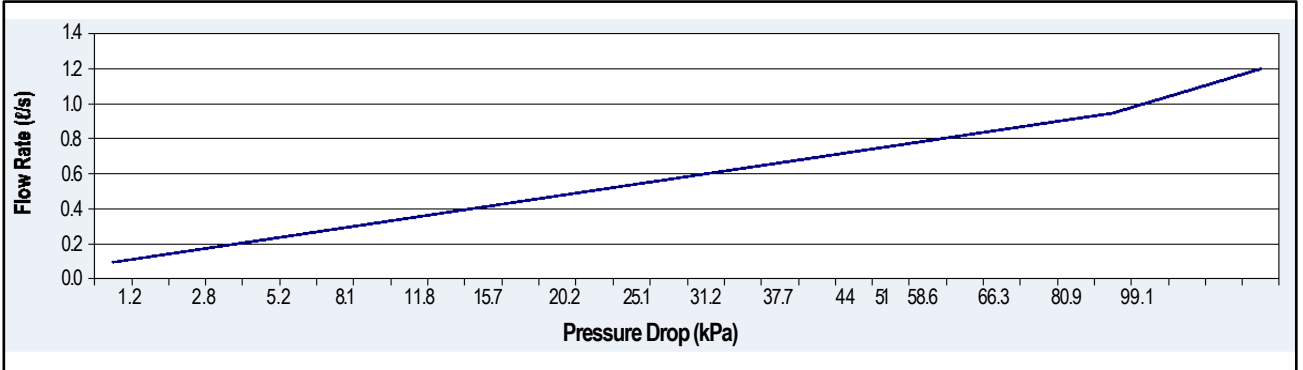
**40LMA060 with AC & EC MOTOR**



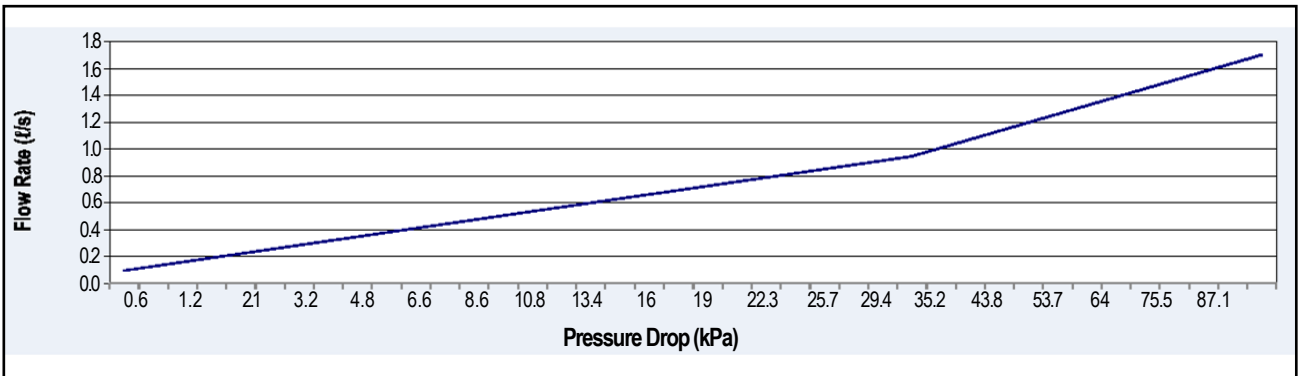
**40LMA080 with AC & EC MOTOR**



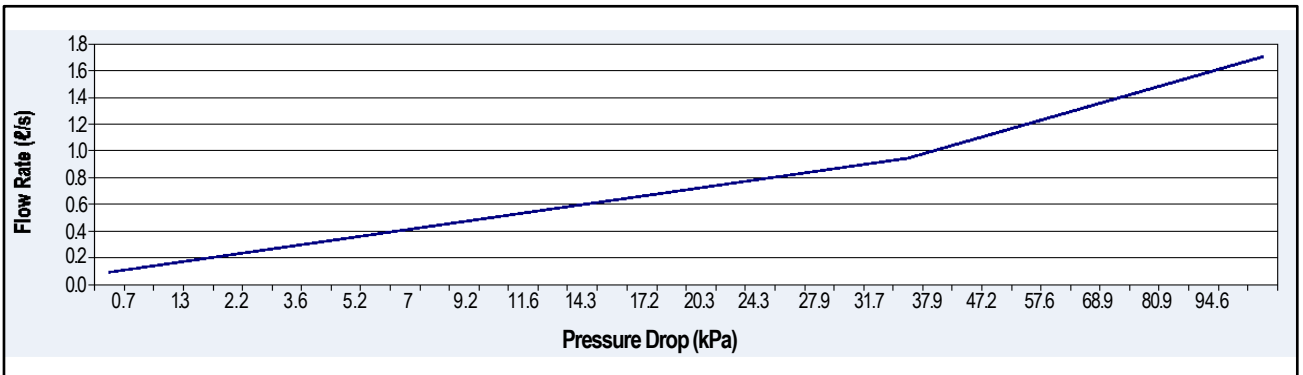
**40LMA024 with AC & EC MOTOR**



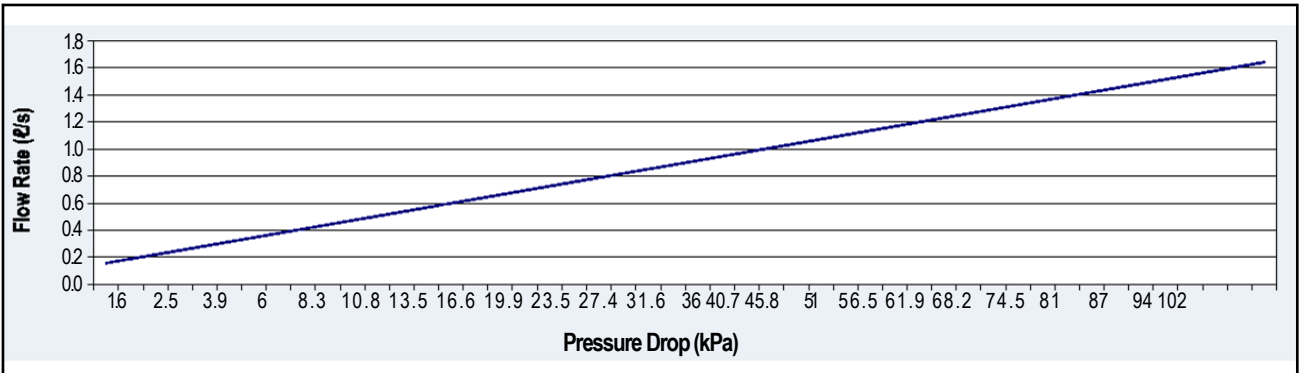
**40LMA040 with AC & EC MOTOR**



**40LMA060 with AC & EC MOTOR**



**40LMA080 with AC & EC MOTOR**





**40LMA024 with AC & EC MOTOR**

Entering Water Temp (°C)	Speed (Nominal Airflow)		Low (390 ℓ/s)				Medium (450 ℓ/s)				High (500 ℓ/s)			
	Entering Air Temperature													
	Dry Bulb	°C	21	23	25	27	21	23	25	27	21	23	25	27
Wet Bulb	°C	16	17	18	19	16	17	18	19	16	17	18	19	
5	Total Capacity	kW	5.6	6.7	7.9	9.1	6.1	7.4	8.7	9.9	6.6	8.0	9.3	10.7
	Sensible Heat Capacity	kW	4.1	4.8	5.6	6.2	4.5	5.4	6.2	6.9	5.0	5.9	6.7	7.6
	Water Flow	ℓ/s	0.22	0.27	0.31	0.36	0.24	0.29	0.34	0.39	0.26	0.32	0.37	0.42
	Pressure Drop	kPa	3.8	5.6	7.6	9.8	4.6	6.7	9.1	11.4	5.3	7.70	10.3	12.9
6	Total Capacity	kW	4.8	6.0	7.1	8.3	5.3	6.5	7.8	9.1	5.7	7.1	8.4	9.7
	Sensible Heat Capacity	kW	3.8	4.5	5.2	5.9	4.2	5.0	5.8	6.6	4.6	5.5	6.4	7.2
	Water Flow	ℓ/s	0.19	0.24	0.28	0.33	0.21	0.26	0.31	0.36	0.23	0.28	0.33	0.39
	Pressure Drop	kPa	2.9	4.4	6.2	8.3	3.5	5.2	7.4	9.7	4.0	6.1	8.5	11.0
7	Total Capacity	kW	4.1	5.2	6.4	7.5	4.6	5.8	7.0	8.2	4.9	6.2	7.5	8.9
	Sensible Heat Capacity	kW	3.4	4.2	4.9	5.6	3.8	4.7	5.5	6.2	4.2	5.1	6.0	6.8
	Water Flow	ℓ/s	0.16	0.21	0.25	0.30	0.18	0.23	0.28	0.33	0.20	0.25	0.30	0.35
	Pressure Drop	kPa	2.1	3.4	5.0	6.8	2.6	4.1	6.0	8.1	3.0	4.8	6.9	9.3
8	Total Capacity	kW	3.5	4.6	5.7	6.7	3.9	5.1	6.2	7.4	4.2	5.5	6.7	8.0
	Sensible Heat Capacity	kW	3.1	3.9	4.6	5.3	3.5	4.3	5.1	5.9	3.8	4.7	5.6	6.5
	Water Flow	ℓ/s	0.14	0.18	0.22	0.27	0.15	0.20	0.25	0.30	0.17	0.22	0.27	0.32
	Pressure Drop	kPa	1.6	2.6	3.9	5.6	1.9	3.2	4.8	6.7	2.2	3.7	5.6	7.7
9	Total Capacity	kW	3.0	4.0	5.0	6.1	3.3	4.4	5.5	6.7	3.6	4.8	6.0	7.2
	Sensible Heat Capacity	kW	2.7	3.5	4.3	5.0	3.0	4.0	4.8	5.6	3.3	4.3	5.2	6.1
	Water Flow	ℓ/s	0.12	0.16	0.20	0.24	0.13	0.18	0.22	0.27	0.14	0.19	0.24	0.29
	Pressure Drop	kPa	1.1	2.0	3.1	4.5	1.4	2.4	3.8	5.5	1.6	2.9	4.40	6.4

Note: Performance is based on wet coil, 50Pa ESP, ΔT = 6°C, ½" filter and 0m altitude

**40LMA040 with AC & EC MOTOR**

Entering Water Temp (°C)	Speed (Nominal Air Flow)		Low (630 ℓ/s)				Medium (670 ℓ/s)				High (720 ℓ/s)			
	Entering Air Temperature													
	Dry Bulb	°C	21	23	25	27	21	23	25	27	21	23	25	27
Wet Bulb	°C	16	17	18	19	16	17	18	19	16	17	18	19	
5	Total Capacity	kW	8.2	10.0	11.8	13.7	8.6	10.5	12.4	14.2	9.0	11.0	12.9	14.9
	Sensible Heat Capacity	kW	6.2	7.4	8.5	9.6	6.5	7.8	9.0	10.1	6.9	8.2	9.5	10.7
	Water Flow	ℓ/s	0.33	0.4	0.47	0.54	0.34	0.42	0.49	0.57	0.36	0.43	0.51	0.59
	Pressure Drop	kPa	4.0	6.0	8.3	11.0	4.4	6.5	9.1	11.7	4.8	7.1	9.9	12.7
6	Total Capacity	kW	7.1	8.8	10.6	12.4	7.4	9.3	11.1	12.9	7.8	9.7	11.6	13.6
	Sensible Heat Capacity	kW	5.7	6.9	8.0	9.1	6.0	7.3	8.4	9.6	6.4	7.7	8.9	10.1
	Water Flow	ℓ/s	0.28	0.35	0.42	0.49	0.30	0.37	0.44	0.51	0.31	0.39	0.46	0.54
	Pressure Drop	kPa	3.0	4.7	6.7	9.1	3.3	5.1	7.3	9.9	3.7	5.60	8.0	10.7
7	Total Capacity	kW	6.1	7.8	9.5	11.2	6.4	8.1	9.9	11.7	6.7	8.6	10.4	12.3
	Sensible Heat Capacity	kW	5.2	6.4	7.5	8.6	5.5	6.7	7.9	9.1	5.8	7.1	8.4	9.6
	Water Flow	ℓ/s	0.24	0.31	0.38	0.45	0.25	0.32	0.39	0.47	0.27	0.34	0.41	0.49
	Pressure Drop	kPa	2.2	3.6	5.4	7.5	2.4	4.0	5.9	8.2	2.7	4.4	6.5	9.0
8	Total Capacity	kW	5.2	6.8	8.4	10.1	5.4	7.1	8.8	10.6	5.7	7.5	9.3	11.1
	Sensible Heat Capacity	kW	4.7	5.9	7.1	8.1	4.9	6.2	7.4	8.6	5.2	6.6	7.8	9.1
	Water Flow	ℓ/s	0.21	0.27	0.34	0.40	0.22	0.28	0.35	0.42	0.23	0.30	0.37	0.44
	Pressure Drop	kPa	1.6	2.8	4.3	6.1	1.8	3.1	4.7	6.7	2.0	3.4	5.1	7.4
9	Total Capacity	kW	4.4	5.9	7.5	9.1	4.6	6.2	7.9	9.5	4.9	6.6	8.3	10.0
	Sensible Heat Capacity	kW	4.0	5.4	6.5	7.7	4.2	5.6	6.9	8.1	4.4	5.9	7.3	8.5
	Water Flow	ℓ/s	0.17	0.24	0.30	0.36	0.18	0.25	0.31	0.38	0.19	0.26	0.33	0.40
	Pressure Drop	kPa	1.2	2.1	3.4	4.9	1.3	2.3	3.7	5.4	1.4	2.6	4.1	6.0

Note: Performance is based on wet coil, 50Pa ESP, ΔT = 6°C, ½" filter and 0m altitude

**40LMA060 with AC & EC MOTOR**

Entering Water Temp (°C)	Speed (Normal Airflow)		Low (930 ℓ/s)				Medium (990 ℓ/s)				High (1030 ℓ/s)			
	Entering Air Temperature													
	Dry Bulb	°C	21	23	25	27	21	23	25	27	21	23	25	27
Wet Bulb	°C	16	17	18	19	16	17	18	19	16	17	18	19	
5	Total Capacity	kW	13.3	15.7	18.1	20.5	13.8	16.2	18.7	21.2	14.1	16.6	19.1	21.7
	Sensible Heat Capacity	kW	9.6	11.2	12.7	14.2	10.0	11.7	13.3	14.8	10.3	12.0	13.7	15.3
	Water Flow	ℓ/s	0.53	0.62	0.72	0.81	0.55	0.64	0.74	0.84	0.56	0.66	0.76	0.86
	Pressure Drop	kPa	18.0	23.9	30.6	38.1	19.1	25.4	32.5	40.5	19.9	26.4	33.9	42.2
6	Total Capacity	kW	11.7	14.0	16.3	18.7	12.1	14.5	16.9	19.4	12.4	14.9	17.3	19.9
	Sensible Heat Capacity	kW	8.9	10.5	12.0	13.5	9.3	11.0	12.6	14.1	9.6	11.3	12.9	14.5
	Water Flow	ℓ/s	0.47	0.56	0.65	0.74	0.48	0.58	0.67	0.77	0.49	0.59	0.69	0.79
	Pressure Drop	kPa	14.3	19.5	25.6	32.4	15.2	20.8	27.2	34.5	15.8	21.6	28.3	35.9
7	Total Capacity	kW	10.2	12.5	14.7	17.1	10.6	12.9	15.3	17.7	10.8	13.2	15.7	18.1
	Sensible Heat Capacity	kW	8.2	9.8	11.4	12.8	8.6	10.3	11.9	13.4	8.8	10.6	12.2	13.8
	Water Flow	ℓ/s	0.41	0.50	0.59	0.68	0.42	0.51	0.61	0.70	0.43	0.53	0.62	0.72
	Pressure Drop	kPa	11.2	15.8	21.2	27.3	11.9	16.9	22.6	29.1	12.4	17.6	23.6	30.4
8	Total Capacity	kW	8.8	11.0	13.2	15.5	9.1	11.4	13.7	16.1	9.4	11.7	14.1	16.5
	Sensible Heat Capacity	kW	7.5	9.1	10.7	12.2	7.8	9.6	11.2	12.7	8.1	9.8	11.5	13.1
	Water Flow	ℓ/s	0.35	0.44	0.53	0.62	0.36	0.45	0.55	0.64	0.37	0.47	0.56	0.66
	Pressure Drop	kPa	8.5	12.7	17.5	23.0	9.2	13.6	18.6	24.5	9.7	14.2	19.4	25.6
9	Total Capacity	kW	7.5	9.7	11.9	14.0	7.8	10.1	12.3	14.6	8.0	10.3	12.6	14.9
	Sensible Heat Capacity	kW	6.7	8.4	10.0	11.5	7.0	8.8	10.5	12.0	7.2	9.1	10.8	12.4
	Water Flow	ℓ/s	0.30	0.39	0.47	0.56	0.31	0.40	0.49	0.58	0.32	0.41	0.50	0.59
	Pressure Drop	kPa	6.3	10.1	14.3	19.2	6.8	10.8	15.3	20.5	7.2	11.3	16.0	21.4

Note: Performance is based on wet coil, 50Pa ESP, ΔT = 6°C, ½" filter and 0m altitude

**40LMA080 with AC & EC MOTOR**

Entering Water Temp (°C)	Speed (Normal Airflow)		Low (1160 ℓ/s)				Medium (1300 ℓ/s)				High (1390 ℓ/s)			
	Entering Air Temperature													
	Dry Bulb	°C	21	23	25	27	21	23	25	27	21	23	25	27
Wet Bulb	°C	16	17	18	19	16	17	18	19	16	17	18	19	
5	Total Capacity	kW	18.4	21.4	24.5	27.6	19.7	22.9	26.2	29.5	20.4	23.8	27.3	30.8
	Sensible Heat Capacity	kW	12.8	14.8	16.8	18.6	13.9	16.1	18.2	20.2	14.5	16.9	19.1	21.2
	Water Flow	ℓ/s	0.73	0.85	0.97	1.10	0.78	0.91	1.04	1.17	0.81	0.95	1.08	1.22
	Pressure Drop	kPa	43.9	57.3	72.4	89.2	49.2	64.3	81.4	100.5	52.6	68.9	87.2	107.8
6	Total Capacity	kW	16.2	19.2	22.2	25.3	17.3	20.5	23.7	27.1	18.0	21.3	24.7	28.2
	Sensible Heat Capacity	kW	11.9	13.9	15.8	17.7	12.9	15.1	17.2	19.2	13.5	15.8	18.1	20.2
	Water Flow	ℓ/s	0.64	0.76	0.88	1.01	0.69	0.81	0.94	1.08	0.71	0.85	0.98	1.12
	Pressure Drop	kPa	34.8	46.8	60.6	76.2	39.1	52.6	68.1	85.7	41.9	56.4	73.0	91.9
7	Total Capacity	kW	14.1	17.1	20.0	23.0	15.1	18.3	21.4	24.7	15.8	19.1	22.4	25.7
	Sensible Heat Capacity	kW	11.0	13.0	14.9	16.8	11.9	14.1	16.2	18.3	12.5	14.8	17.0	19.2
	Water Flow	ℓ/s	0.56	0.68	0.80	0.92	0.60	0.73	0.85	0.98	0.63	0.76	0.89	1.02
	Pressure Drop	kPa	27.4	38.0	50.1	64.1	30.8	42.9	56.6	72.3	33.1	46.1	60.9	77.6
8	Total Capacity	kW	12.2	15.1	18.0	20.9	13.1	16.2	19.3	22.5	13.7	16.9	20.1	23.4
	Sensible Heat Capacity	kW	10.1	12.1	14.1	15.9	10.9	13.2	15.3	17.3	11.5	13.8	16.1	18.2
	Water Flow	ℓ/s	0.49	0.60	0.72	0.83	0.52	0.64	0.77	0.89	0.54	0.67	0.80	0.93
	Pressure Drop	kPa	21.0	30.5	41.4	53.9	23.8	34.4	46.8	61.0	25.6	37.0	50.4	65.7
9	Total Capacity	kW	10.5	13.3	16.0	18.9	11.3	14.3	17.2	20.3	11.8	14.9	18.0	21.2
	Sensible Heat Capacity	kW	9.2	11.2	13.2	15.1	10.0	12.2	14.4	16.4	10.5	12.8	15.1	17.3
	Water Flow	ℓ/s	0.42	0.53	0.64	0.75	0.45	0.57	0.69	0.81	0.47	0.59	0.72	0.84
	Pressure Drop	kPa	16.2	24.2	33.6	45.0	18.3	27.5	38.2	50.9	19.8	29.6	41.2	54.8

Note: Performance is based on wet coil, 50Pa ESP, ΔT = 6°C, ½" filter and 0m altitude

**40LMA024 with AC & EC MOTOR**

Entering Water Temp (°C)	Speed (Normal Airflow)		Low (380 ℓ/s)				Medium (430 ℓ/s)				High (475 ℓ/s)			
	Entering Air Temperature													
	Dry Bulb	°C	21	23	25	27	21	23	25	27	21	23	25	27
	Wet Bulb	°C	16	17	18	19	16	17	18	19	16	17	18	19
5	Total Capacity	kW	7.2	8.5	9.8	11.1	7.8	9.2	10.6	12.0	8.4	9.9	11.3	12.8
	Sensible Heat Capacity	kW	4.6	5.4	6.1	6.8	5.1	5.9	6.7	7.5	5.5	6.4	7.3	8.1
	Water Flow	ℓ/s	0.29	0.34	0.39	0.44	0.31	0.37	0.42	0.48	0.33	0.39	0.45	0.51
	Pressure Drop	kPa	8.7	12.1	15.4	19.1	10.2	13.9	17.6	21.8	11.8	15.6	19.9	24.7
6	Total Capacity	kW	6.3	7.6	8.8	10.1	6.8	8.2	9.6	10.9	7.3	8.8	10.3	11.7
	Sensible Heat Capacity	kW	4.3	5.0	5.8	6.5	4.7	5.5	6.3	7.1	5.1	6.0	6.9	7.7
	Water Flow	ℓ/s	0.25	0.30	0.35	0.4	0.27	0.33	0.38	0.43	0.29	0.35	0.41	0.47
	Pressure Drop	kPa	6.6	9.6	12.8	16.2	7.8	11.3	14.7	18.5	9.0	12.7	16.6	21.0
7	Total Capacity	kW	5.4	6.6	7.9	9.2	5.8	7.2	8.6	10.0	6.3	7.8	9.2	10.7
	Sensible Heat Capacity	kW	3.9	4.7	5.4	6.1	4.3	5.1	5.9	6.7	4.7	5.6	6.5	7.3
	Water Flow	ℓ/s	0.21	0.26	0.32	0.37	0.23	0.29	0.34	0.40	0.25	0.31	0.37	0.42
	Pressure Drop	kPa	4.9	7.5	10.5	13.6	5.8	8.8	12.1	15.6	6.7	10.1	13.8	17.7
8	Total Capacity	kW	4.6	5.8	7.0	8.3	5.0	6.3	7.6	9.0	5.4	6.8	8.2	9.7
	Sensible Heat Capacity	kW	3.6	4.3	5.1	5.8	3.9	4.8	5.6	6.3	4.3	5.2	6.1	6.9
	Water Flow	ℓ/s	0.18	0.23	0.28	0.33	0.20	0.25	0.30	0.36	0.21	0.27	0.33	0.38
	Pressure Drop	kPa	3.6	5.7	8.3	11.4	4.2	6.7	9.8	13.0	4.9	7.8	11.3	14.7
9	Total Capacity	kW	3.9	5.0	6.2	7.4	4.2	5.5	6.8	8.1	4.5	5.9	7.3	8.7
	Sensible Heat Capacity	kW	3.2	4.0	4.7	5.4	3.6	4.4	5.2	6.0	3.9	4.8	5.7	6.5
	Water Flow	ℓ/s	0.15	0.20	0.25	0.30	0.17	0.22	0.27	0.32	0.18	0.24	0.29	0.35
	Pressure Drop	kPa	2.6	4.3	6.5	9.3	3.0	5.1	7.7	10.8	3.5	5.9	9.0	12.2

Note: Performance is based on wet coil, 50Pa ESP, ΔT = 6°C, ½" filter and 0m altitude

**40LMA040 with AC & EC MOTOR**

Entering Water Temp (°C)	Speed (Normal Airflow)		Low (590 ℓ/s)				Medium (630 ℓ/s)				High (670 ℓ/s)			
	Entering Air Temperature													
	Dry Bulb	°C	21	23	25	27	21	23	25	27	21	23	25	27
	Wet Bulb	°C	16	17	18	19	16	17	18	19	16	17	18	19
5	Total Capacity	kW	10.0	12.0	14.0	15.9	10.5	12.5	14.5	16.6	10.9	13.1	15.2	17.3
	Sensible Heat Capacity	kW	6.7	7.9	9.0	10.1	7.1	8.3	9.5	10.6	7.4	8.7	9.9	11.1
	Water Flow	ℓ/s	0.40	0.48	0.55	0.63	0.42	0.50	0.58	0.66	0.43	0.52	0.60	0.69
	Pressure Drop	kPa	6.0	8.6	11.6	14.6	6.6	9.3	12.6	15.7	7.1	10.1	13.6	16.8
6	Total Capacity	kW	8.7	10.6	12.6	14.5	9.1	11.1	13.1	15.2	9.4	11.6	13.7	15.8
	Sensible Heat Capacity	kW	6.2	7.3	8.5	9.6	6.5	7.7	8.9	10.0	6.8	8.1	9.3	10.5
	Water Flow	ℓ/s	0.34	0.42	0.50	0.58	0.36	0.44	0.52	0.60	0.38	0.46	0.54	0.63
	Pressure Drop	kPa	4.5	6.8	9.4	12.5	4.9	7.4	10.3	13.6	5.4	8.0	11.1	14.3
7	Total Capacity	kW	7.4	9.3	11.2	13.2	7.8	9.7	11.7	13.7	8.1	10.2	12.2	14.3
	Sensible Heat Capacity	kW	5.7	6.8	7.9	9.0	5.9	7.2	8.4	9.5	6.2	7.5	8.8	10.0
	Water Flow	ℓ/s	0.30	0.37	0.45	0.52	0.31	0.39	0.46	0.55	0.32	0.40	0.48	0.57
	Pressure Drop	kPa	3.3	5.2	7.5	10.3	3.6	5.7	8.2	11.2	4.0	6.2	8.9	12.2
8	Total Capacity	kW	6.3	8.1	10.0	11.8	6.6	8.5	10.4	12.4	6.9	8.9	10.9	12.9
	Sensible Heat Capacity	kW	5.2	6.3	7.4	8.5	5.4	6.7	7.8	9.0	5.7	7.0	8.2	9.4
	Water Flow	ℓ/s	0.25	0.32	0.40	0.47	0.26	0.34	0.41	0.49	0.27	0.35	0.43	0.51
	Pressure Drop	kPa	2.4	4.0	5.9	8.3	2.7	4.3	6.5	9.1	2.9	4.7	7.1	9.9
9	Total Capacity	kW	5.4	7.1	8.8	10.6	5.6	7.4	9.2	11.1	5.9	7.7	9.6	11.6
	Sensible Heat Capacity	kW	4.6	5.9	7.0	8.0	4.9	6.2	7.3	8.5	5.1	6.5	7.7	8.9
	Water Flow	ℓ/s	0.21	0.28	0.35	0.42	0.22	0.29	0.37	0.44	0.23	0.31	0.38	0.46
	Pressure Drop	kPa	1.7	3.0	4.6	6.7	1.9	3.3	5.1	7.3	2.1	3.6	5.5	8.0

Note: Performance is based on wet coil, 50Pa ESP, ΔT = 6°C, ½" filter and 0m altitude

**40LMA060 with AC & EC MOTOR**

Entering Water Temp (°C)	Speed (Normal Airflow)	Low (840 ℓ/s)				Medium (870 ℓ/s)				High (900 ℓ/s)				
		Entering Air Temperature												
		Dry Bulb	°C	21	23	25	27	21	23	25	27	21	23	25
Wet Bulb	°C	16	17	18	19	16	17	18	19	16	17	18	19	
5	Total Capacity	kW	14.6	17.2	19.8	22.4	15.0	17.6	20.2	22.9	15.3	18.0	20.6	23.3
	Sensible Heat Capacity	kW	9.7	11.2	12.8	14.2	10.0	11.6	13.1	14.6	10.2	11.8	13.4	15.0
	Water Flow	ℓ/s	0.58	0.68	0.78	0.89	0.60	0.70	0.80	0.91	0.61	0.71	0.82	0.93
	Pressure Drop	kPa	14.3	18.7	23.8	29.5	15.0	19.5	24.8	30.8	15.6	20.2	25.6	31.8
6	Total Capacity	kW	12.7	15.4	17.9	20.4	13.1	15.8	18.3	20.9	13.3	16.1	18.7	21.4
	Sensible Heat Capacity	kW	8.9	10.5	12.0	13.5	9.2	10.8	12.4	13.9	9.4	11.1	12.7	14.2
	Water Flow	ℓ/s	0.51	0.61	0.71	0.81	0.52	0.63	0.73	0.83	0.53	0.64	0.74	0.85
	Pressure Drop	kPa	10.8	15.3	19.9	25.1	11.4	16.0	20.8	26.2	11.9	16.5	21.5	27.1
7	Total Capacity	kW	11.0	13.5	16.1	18.6	11.3	13.9	16.5	19.1	11.5	14.2	16.8	19.5
	Sensible Heat Capacity	kW	8.2	9.8	11.3	12.8	8.4	10.1	11.7	13.2	8.6	10.3	11.9	13.5
	Water Flow	ℓ/s	0.44	0.54	0.64	0.74	0.45	0.55	0.66	0.76	0.46	0.56	0.67	0.77
	Pressure Drop	kPa	8.1	12.2	16.5	21.2	8.5	12.9	17.2	22.1	8.9	13.4	17.8	22.9
8	Total Capacity	kW	9.4	11.9	14.4	16.8	9.6	12.2	14.8	17.2	9.8	12.4	15.1	17.6
	Sensible Heat Capacity	kW	7.5	9.1	10.7	12.1	7.7	9.4	11.0	12.4	7.9	9.6	11.2	12.8
	Water Flow	ℓ/s	0.37	0.47	0.57	0.67	0.38	0.48	0.59	0.69	0.39	0.49	0.60	0.70
	Pressure Drop	kPa	5.9	9.4	13.5	17.6	6.2	9.9	14.1	18.4	6.5	10.3	14.6	19.1
9	Total Capacity	kW	8.0	10.3	12.7	15.2	8.2	10.6	13.1	15.6	8.4	10.9	13.4	15.9
	Sensible Heat Capacity	kW	6.8	8.4	10.0	11.5	7.0	8.7	10.3	11.8	7.2	8.9	10.5	12.1
	Water Flow	ℓ/s	0.32	0.41	0.51	0.60	0.32	0.42	0.52	0.62	0.33	0.43	0.53	0.63
	Pressure Drop	kPa	4.3	7.2	10.8	14.7	4.5	7.6	11.4	15.3	4.7	7.9	11.9	15.9

Note: Performance is based on wet coil, 50Pa ESP, ΔT = 6°C, ½" filter and 0m altitude

**40LMA080 with AC & EC MOTOR**

Entering Water Temp (°C)	Speed (Normal Airflow)	Low (1130 ℓ/s)				Medium (1210 ℓ/s)				High (1260 ℓ/s)				
		Entering Air Temperature												
		Dry Bulb	°C	21	23	25	27	21	23	25	27	21	23	25
Wet Bulb	°C	16	17	18	19	16	17	18	19	16	17	18	19	
5	Total Capacity	kW	20.0	23.3	26.7	30.1	20.9	24.3	27.9	31.5	21.4	25.0	28.6	32.3
	Sensible Heat Capacity	kW	13.1	15.2	17.2	19.1	13.8	16.0	18.1	20.1	14.2	16.5	18.6	20.7
	Water Flow	ℓ/s	0.79	0.93	1.06	1.20	0.83	0.97	1.11	1.25	0.85	0.99	1.14	1.28
	Pressure Drop	kPa	28.0	36.6	46.3	57.2	30.2	39.4	50.0	61.7	31.6	41.2	52.2	64.5
6	Total Capacity	kW	17.6	20.9	24.2	27.5	18.4	21.8	25.3	28.8	18.9	22.4	26.0	29.6
	Sensible Heat Capacity	kW	12.1	14.2	16.2	18.1	12.8	15.0	17.1	19.1	13.2	15.4	17.6	19.7
	Water Flow	ℓ/s	0.70	0.83	0.96	1.09	0.73	0.87	1.01	1.14	0.75	0.89	1.03	1.17
	Pressure Drop	kPa	22.3	30.0	38.8	48.5	24.1	32.4	41.9	52.5	25.1	33.9	43.8	54.9
7	Total Capacity	kW	15.3	18.5	21.8	25.1	16.0	19.3	22.8	26.3	16.4	19.9	23.4	27.0
	Sensible Heat Capacity	kW	11.2	13.3	15.2	17.2	11.8	14.0	16.1	18.1	12.2	14.4	16.6	18.7
	Water Flow	ℓ/s	0.61	0.74	0.87	1.00	0.64	0.77	0.91	1.04	0.65	0.79	0.93	1.07
	Pressure Drop	kPa	17.4	24.2	32.1	41.1	18.8	26.1	34.7	44.5	19.6	27.3	36.3	46.5
8	Total Capacity	kW	13.1	16.3	19.5	22.7	13.8	17.1	20.4	23.8	14.1	17.6	21.0	24.4
	Sensible Heat Capacity	kW	10.3	12.4	14.3	16.2	10.8	13.0	15.1	17.1	11.2	13.5	15.6	17.7
	Water Flow	ℓ/s	0.52	0.65	0.78	0.90	0.55	0.68	0.81	0.94	0.56	0.70	0.83	0.97
	Pressure Drop	kPa	13.2	19.4	26.3	34.3	14.6	20.9	28.5	37.1	15.4	21.9	29.8	38.8
9	Total Capacity	kW	11.2	14.3	17.4	20.5	11.7	15.0	18.2	21.5	12.1	15.4	18.7	22.1
	Sensible Heat Capacity	kW	9.3	11.5	13.5	15.4	9.9	12.1	14.2	16.2	10.2	12.5	14.7	16.8
	Water Flow	ℓ/s	0.44	0.57	0.69	0.82	0.47	0.60	0.72	0.85	0.48	0.61	0.74	0.88
	Pressure Drop	kPa	9.6	15.3	21.4	28.5	10.6	16.6	23.1	30.9	11.2	17.4	24.2	32.4

Note: Performance is based on wet coil, 50Pa ESP, ΔT = 6°C, ½" filter and 0m altitude

### 40LMA024 with AC & EC MOTOR

Air Flow	Water Temp. Rise (°C)	Water Temp. Air Temp. (D/B)	°C	50		60		70		80	
			°C	19	21	19	21	19	21	19	21
400 ℓ/s	10	Heating	kW	3.7	3.3	5.7	5.3	7.6	7.2	9.6	9.2
		Water Flow	ℓ/s	0.09	0.08	0.14	0.13	0.19	0.18	0.23	0.22
		Pressure Drop	kPa	1.2	1.0	2.5	2.2	4.2	3.8	6.1	5.6
	15	Heating	kW	2.5	2.1	4.6	4.2	6.6	6.2	8.6	8.2
		Water Flow	ℓ/s	0.04	0.03	0.07	0.07	0.11	0.10	0.14	0.13
		Pressure Drop	kPa	0.3	0.2	0.9	0.7	1.6	1.4	2.4	2.2
450 ℓ/s	10	Heating	kW	4.0	3.6	6.1	5.7	8.3	7.8	10.4	9.9
		Water Flow	ℓ/s	0.10	0.09	0.15	0.14	0.20	0.19	0.25	0.24
		Pressure Drop	kPa	1.4	1.2	2.9	2.6	4.8	4.4	7.0	6.5
	15	Heating	kW	2.7	2.2	5.0	4.5	7.1	6.7	9.3	8.8
		Water Flow	ℓ/s	0.04	0.04	0.08	0.07	0.12	0.11	0.15	0.14
		Pressure Drop	kPa	0.3	0.2	1.0	0.9	1.8	1.6	2.8	2.6
500 ℓ/s	10	Heating	kW	4.2	3.8	6.5	6.0	8.8	8.3	11.0	10.6
		Water Flow	ℓ/s	0.10	0.09	0.16	0.15	0.21	0.20	0.27	0.26
		Pressure Drop	kPa	1.6	1.3	3.2	2.8	5.3	4.9	7.8	7.2
	15	Heating	kW	2.9	2.4	5.2	4.8	7.5	7.1	9.8	9.4
		Water Flow	ℓ/s	0.05	0.04	0.09	0.08	0.12	0.12	0.16	0.15
		Pressure Drop	kPa	0.4	0.3	1.1	0.9	2.0	1.8	3.1	2.9

Note: Performance is based on wet coil, 50Pa ESP, ½" filter and 0m altitude

### 40LMA040 with AC & EC MOTOR

Air Flow	Water Temp. Rise (°C)	Water Temp. Air Temp. (D/B)	°C	50		60		70		80	
			°C	19	21	19	21	19	21	19	21
600 ℓ/s	10	Heating	kW	6.7	6.0	9.9	9.2	13.0	12.4	16.2	15.5
		Water Flow	ℓ/s	0.16	0.15	0.24	0.22	0.32	0.30	0.40	0.38
		Pressure Drop	kPa	6.6	5.5	12.7	11.3	20.2	18.4	28.9	26.8
	15	Heating	kW	5.1	4.5	8.4	7.7	11.6	10.9	14.8	14.1
		Water Flow	ℓ/s	0.08	0.07	0.14	0.13	0.19	0.18	0.24	0.23
		Pressure Drop	kPa	2.1	1.6	4.7	4.1	8.0	7.3	12.0	11.1
700 ℓ/s	10	Heating	kW	6.9	6.2	10.3	9.6	13.6	12.9	16.8	16.1
		Water Flow	ℓ/s	0.17	0.15	0.25	0.23	0.33	0.31	0.41	0.40
		Pressure Drop	kPa	7.0	5.9	13.6	12.0	21.6	19.8	31.0	28.8
	15	Heating	kW	5.3	4.6	8.7	8.0	12.0	11.4	15.3	14.7
		Water Flow	ℓ/s	0.09	0.07	0.14	0.13	0.20	0.18	0.25	0.24
		Pressure Drop	kPa	2.2	1.7	5.0	4.3	8.6	7.8	12.9	11.9
800 ℓ/s	10	Heating	kW	7.2	6.5	10.7	10.0	14.1	13.4	17.5	16.8
		Water Flow	ℓ/s	0.17	0.16	0.26	0.24	0.34	0.33	0.43	0.41
		Pressure Drop	kPa	7.5	6.3	14.6	12.9	23.3	21.2	33.3	31.0
	15	Heating	kW	5.5	4.8	9.0	8.3	12.5	11.8	16.0	15.3
		Water Flow	ℓ/s	0.09	0.08	0.15	0.13	0.20	0.19	0.26	0.25
		Pressure Drop	kPa	2.3	1.9	5.3	4.6	9.2	8.3	13.8	12.7

Note: Performance is based on wet coil, 50Pa ESP, ½" filter and 0m altitude

### 40LMA060 with AC & EC MOTOR

Air Flow	Water Temp. Rise (°C)	Water Temp. Air Temp. (D/B)	°C	50		60		70		80	
			°C	19	21	19	21	19	21	19	21
800 ℓ/s	10	Heating	kW	9.1	8.3	13.5	12.6	17.7	16.9	22.0	21.1
		Water Flow	ℓ/s	0.22	0.20	0.33	0.31	0.43	0.41	0.54	0.52
		Pressure Drop	kPa	8.2	6.9	15.7	13.9	24.9	22.8	35.6	33.1
	15	Heating	kW	7.1	6.2	11.5	10.6	15.8	15.0	20.1	19.2
		Water Flow	ℓ/s	0.11	0.10	0.19	0.17	0.26	0.24	0.33	0.31
		Pressure Drop	kPa	2.6	2.1	5.8	5.1	10.0	9.0	14.8	13.7
900 ℓ/s	10	Heating	kW	9.4	8.5	13.9	13.0	18.3	17.4	22.7	21.8
		Water Flow	ℓ/s	0.23	0.21	0.34	0.32	0.45	0.42	0.56	0.53
		Pressure Drop	kPa	8.6	7.2	16.6	14.7	26.4	24.1	37.7	35.1
	15	Heating	kW	7.3	6.4	11.8	11.0	16.3	15.4	20.8	19.9
		Water Flow	ℓ/s	0.12	0.10	0.19	0.18	0.27	0.25	0.34	0.32
		Pressure Drop	kPa	2.7	2.2	6.2	5.4	10.5	9.5	15.7	14.5
1000 ℓ/s	10	Heating	kW	9.6	8.7	14.2	13.3	18.7	17.8	23.2	22.3
		Water Flow	ℓ/s	0.23	0.21	0.34	0.32	0.46	0.43	0.57	0.55
		Pressure Drop	kPa	8.9	7.5	17.2	15.3	27.4	25.0	39.2	36.4
	15	Heating	kW	7.5	6.6	12.1	11.2	16.7	15.8	21.2	20.3
		Water Flow	ℓ/s	0.12	0.11	0.20	0.18	0.27	0.26	0.35	0.33
		Pressure Drop	kPa	2.8	2.3	6.4	5.6	10.9	9.9	16.3	15.1

Note: Performance is based on wet coil, 50Pa ESP, ½" filter and 0m altitude

### 40LMA080 with AC & EC MOTOR

Air Flow	Water Temp. Rise (°C)	Water Temp. Air Temp. (D/B)	°C	50		60		70		80	
			°C	19	21	19	21	19	21	19	21
1100 ℓ/s	10	Heating	kW	11.3	10.3	16.5	15.5	21.7	20.6	26.8	25.7
		Water Flow	ℓ/s	0.27	0.25	0.40	0.38	0.53	0.50	0.66	0.63
		Pressure Drop	kPa	16.0	13.5	30.3	26.9	47.7	43.6	67.9	63.2
	15	Heating	kW	9.0	7.9	14.3	13.2	19.5	18.5	24.7	23.6
		Water Flow	ℓ/s	0.14	0.13	0.23	0.21	0.32	0.30	0.40	0.39
		Pressure Drop	kPa	5.3	4.3	11.5	10.0	19.3	17.5	28.5	26.4
1250 ℓ/s	10	Heating	kW	12.0	10.9	17.5	16.4	23.0	21.9	28.5	27.3
		Water Flow	ℓ/s	0.29	0.26	0.43	0.40	0.56	0.53	0.70	0.67
		Pressure Drop	kPa	17.7	14.9	33.6	29.9	53.1	48.5	75.7	70.4
	15	Heating	kW	9.5	8.4	15.1	14.0	20.7	19.6	26.2	25.1
		Water Flow	ℓ/s	0.15	0.14	0.24	0.23	0.34	0.32	0.43	0.41
		Pressure Drop	kPa	5.8	4.7	12.7	11.1	21.4	19.4	31.7	29.3
1400 ℓ/s	10	Heating	kW	12.4	11.3	18.2	17.0	23.9	22.7	29.5	28.3
		Water Flow	ℓ/s	0.30	0.27	0.44	0.41	0.58	0.55	0.72	0.69
		Pressure Drop	kPa	18.8	15.9	35.8	31.8	56.6	51.7	80.7	75.1
	15	Heating	kW	9.8	8.7	15.7	14.5	21.4	20.3	27.2	26.0
		Water Flow	ℓ/s	0.16	0.14	0.25	0.23	0.35	0.33	0.44	0.42
		Pressure Drop	kPa	6.2	5.0	13.5	11.8	22.8	20.7	33.8	31.3

Note: Performance is based on wet coil, 50Pa ESP, ½" filter and 0m altitude

# Sound Pressure Level

## 40LMA with AC MOTOR

Coil # of Row	Model	Speed	Octave Band Centre								dB(A)
			63	125	250	500	1000	2000	4000	8000	
4 Row	40LMA024	H	23.20	30.50	40.10	41.30	46.70	42.10	38.40	28.40	49.80
		M	21.70	29.10	36.60	38.10	43.20	39.40	34.10	24.60	46.50
		L	18.50	27.30	34.90	35.40	40.70	34.70	30.10	20.50	43.70
	40LMA040	H	20.80	37.10	46.00	47.00	48.50	43.90	42.40	30.90	53.20
		M	19.50	35.30	45.10	45.70	47.50	41.70	40.20	28.90	51.90
		L	17.40	32.60	44.10	44.70	45.60	40.60	38.60	26.80	50.50
	40LMA060	H	21.90	34.70	45.30	47.60	47.30	44.80	41.40	31.30	52.90
		M	21.60	34.10	44.50	47.00	46.40	43.90	40.50	36.70	52.20
		L	18.30	32.70	43.60	46.00	45.30	42.80	39.30	28.80	51.00
	40LMA080	H	28.10	37.20	43.60	46.00	49.40	46.20	44.20	35.10	53.60
		M	26.60	35.40	41.90	44.90	48.60	44.50	42.30	31.40	52.30
		L	23.20	31.70	41.50	43.70	46.80	42.50	39.80	28.70	50.60
6 Row	40LMA024	H	25.20	31.70	39.50	41.80	45.00	41.90	37.60	27.00	49.00
		M	20.70	29.50	38.40	40.90	42.90	38.50	34.60	23.10	47.00
		L	14.40	27.40	33.80	36.40	40.50	31.20	31.50	20.10	43.30
	40LMA040	H	20.30	37.00	46.70	47.10	47.70	41.40	40.70	28.40	52.70
		M	18.70	34.80	44.20	44.80	46.80	39.90	38.60	25.80	51.00
		L	15.50	31.50	43.00	43.80	44.20	37.20	37.30	23.20	49.20
	40LMA060	H	22.50	32.90	44.70	46.50	45.40	44.40	38.90	28.90	51.70
		M	20.30	31.60	43.20	45.90	44.80	43.00	38.00	28.30	50.70
		L	18.20	27.90	42.00	44.60	43.30	42.70	36.20	26.30	49.50
	40LMA080	H	25.80	35.40	48.60	49.00	49.00	44.60	40.80	32.10	54.40
		M	24.30	34.30	45.80	46.60	47.60	43.80	40.40	29.80	52.60
		L	21.30	32.80	43.90	45.30	45.80	42.70	37.90	28.50	50.90

## 40LMA with EC MOTOR

Coil # of Row	Model	Speed	Octave Band Centre								dB(A)
			63	125	250	500	1000	2000	4000	8000	
4 Row	40LMA024	H	23.20	30.50	40.10	41.30	46.70	42.10	38.40	28.40	49.80
		M	21.70	29.10	36.60	38.10	43.20	39.40	34.10	24.60	46.50
		L	18.50	27.30	34.90	35.40	40.70	34.70	30.10	20.50	43.70
	40LMA040	H	20.80	37.10	46.00	47.00	48.50	43.90	42.40	30.90	53.20
		M	19.50	35.30	45.10	45.70	47.50	41.70	40.20	28.90	51.90
		L	17.40	32.60	44.10	44.70	45.60	40.60	38.60	26.80	50.50
	40LMA060	H	21.90	34.70	45.30	47.60	47.30	44.80	41.40	31.30	52.90
		M	21.60	34.10	44.50	47.00	46.40	43.90	40.50	36.70	52.20
		L	18.30	32.70	43.60	46.00	45.30	42.80	39.30	28.80	51.00
	40LMA080	H	28.10	37.20	43.60	46.00	49.40	46.20	44.20	35.10	53.60
		M	26.60	35.40	41.90	44.90	48.60	44.50	42.30	31.40	52.30
		L	23.20	31.70	41.50	43.70	46.80	42.50	39.80	28.70	50.60
6 Row	40LMA024	H	25.20	31.70	39.50	41.80	45.00	41.90	37.60	27.00	49.00
		M	20.70	29.50	38.40	40.90	42.90	38.50	34.60	23.10	47.00
		L	14.40	27.40	33.80	36.40	40.50	31.20	31.50	20.10	43.30
	40LMA040	H	20.30	37.00	46.70	47.10	47.70	41.40	40.70	28.40	52.70
		M	18.70	34.80	44.20	44.80	46.80	39.90	38.60	25.80	51.00
		L	15.50	31.50	43.00	43.80	44.20	37.20	37.30	23.20	49.20
	40LMA060	H	22.50	32.90	44.70	46.50	45.40	44.40	38.90	28.90	51.70
		M	20.30	31.60	43.20	45.90	44.80	43.00	38.00	28.30	50.70
		L	18.20	27.90	42.00	44.60	43.30	42.70	36.20	26.30	49.50
	40LMA080	H	25.80	35.40	48.60	49.00	49.00	44.60	40.80	32.10	54.40
		M	24.30	34.30	45.80	46.60	47.60	43.80	40.40	29.80	52.60
		L	21.30	32.80	43.90	45.30	45.80	42.70	37.90	28.50	50.90

Note: Sound measurement in accordance with JIS B 8616:2006 Standard (1.5m below the unit bottom) at 76Pa ESP



## 40LMA with AC MOTOR

Model	Voltage	Phase	Hz	Operating Volts *		Motor	
				Max.	Min.	LRA	FLA
40LMA024	240	Single	50	253	207	6.4	2.5
40LMA040						7.8	4.1
40LMA060						12.1	4.9
40LMA080						21.0	6.9

LRA : Locked Rotor Amps

FLA : Full Load Amps

\* Permissible limits of the voltage range at which the unit will operate satisfactorily.

## 40LMA with EC MOTOR

Model	Voltage	Phase	Hz	Operating Volts *		Motor	
				Max.	Min.	LRA	FLA
40LMA024	240	Single	50	253	207	BDT	1.70
40LMA040						BDT	1.70
40LMA060						BDT	6.57
40LMA080						BDT	6.57

BDT: When motor locked, driver will shut down speed command after 10 seconds.

## Typical Motor Power Input Comparison

Model	Motor Power Input Comparison		% Saving
	AC Motor	EC Motor	
40LMA024	614	590	4%
40LMA040	811	715	12%
40LMA060	1140	1030	10%
40LMA080	1680	1060	37%

Note: Data based on unit with 4-rows coil, fan running at high speed with 50Pa ESP



Furnish and install fan coil units in the location and manner shown in IOM. Units shall be suitable for use with 240 V-1 Ph-50Hz electrical supply.

## **COILS**

Coils shall be rated in accordance with ARI standard 410. The coils shall be tested at 2760kPa air pressure while submerged in water. The coils shall be equipped with manual air bleed/vent valve. The base units shall be completed with 4-row chilled water coil or optional 6-row which equipped with 1" copper connections for both supply and return line. These coils shall be constructed with lanced sine wave aluminum plate fins mechanically bonded to 3/8 (9.5mm) copper tubing with all joints brazed. Optional 1-row hot water heating coil with 1/2" copper connection is fitted inside the unit attached to the Chilled Water coil. This Heating Coil can only be supplied in conjunction with the Chilled Water Coil. This coil shall be constructed with double wavy aluminum plate fins mechanical bonded to 1/2" (12.7mm) copper tubing with all joints brazed. All coils shall be with a nominal 472 fins per meter with copper headers. Coils connection can be chosen for either left or right connection.

## **CASING**

Unit casing construction shall be single skin 1mm thick galvanized steel with internal lined with 25.4mm Polyurethane laminated with aluminum foil. Condensate drain pan shall be painted galvanized steel insulated with 6.4mm thick closed cell polyethylene foam and pitch for positive drainage with unit level. Optional unpainted Stainless steel drain pan with PE insulation is also available. The drain pan connection shall be 3/4" NPT male.

## **FAN**

Fan(s) shall be DIDW forward curved centrifugal type direct driven by a resiliently mounted permanent split capacitor motor.

## **SERVICEABILITY**

The unit shall have a side access panel at coil side providing access to the fan motor and drain tray. The electrical terminal block (including capacitor) shall be mounted on the unit exterior opposite coil side.

## **SOUND**

The unit shall be of quiet operation suitable for typical commercial operation.

## **FILTER ACCESSORY**

The base units shall only be with return air spigot without filter. Optional air filter frame shall be fitted to the unit return air spigot. This add-on filter track shall be capable of receiving the standard 12mm thick frame with EU2 grade media or optional 25mm with higher EU3 grade media. The filter shall be able to be fitted in either left or right hand position (following the coils connection) with side withdrawal of filter as well as front withdrawal.

## **MOTOR - AC**

Fan motor shall be 3 – Speed, 240V, single phase, 50Hz. Permanent split capacitor type with ball type bearings and oversized oil reservoirs to ensure lubrication.

The fan motor shall be equipped with integral automatic temperature reset for motor protection. Motor insulation is class B & IP20 rating enclosure.

## **MOTOR - EC**

Fan motor shall be multi-speed, 240V, single phase, 50Hz. Electronically commuted motor and low energy consumption.

The motor offer higher efficiency and reliability, longer lifetime (no brush erosion) and overall reduction of electromagnetic interferences.

The EC motor are with built-in driver and controller are supplied with the EC motor for constant air flow and low noise. Unit with EC motor is capable to be connected to BMS controller. Motor installation is class B and IP21 rating with open drip proof enclosure.





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<b>40LMA-EC</b>	<b>REV.2</b>
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