

TECHNICAL DATA – EA 90

CABINET and WATER RESERVOIR

The cabinet and water reservoir are constructed from injection moulded high strength structural polymer, incorporating UV inhibitor additives. All cabinet and reservoir mouldings are slate grey in colour.

FAN

The fan is a centrifugal type with forward curved blades and double inlets, moulded in one piece from polypropylene. It is inherently, statically and dynamically balanced.

FAN SHAFT AND BEARINGS

The fan shaft is stainless steel, hollow square section. This provides efficient torque transfer without the use of screw fastenings. Sealed bearings are located with resilient mounts.

FAN HOUSING

The fan housing is moulded from high strength structural polymer, incorporating resilient mounts for the shaft.

LOUVRE PANELS

Louvre panels are moulded in high strength structural polymer with UV inhibitor additives, incorporating supports to minimise cooling pad sag.

FAN MOTOR

Motors are tropic proofed two speed, single phase type, with sealed ball bearings and resilient mounts. For safety, the motor is fitted with auto re-set overloads and one time thermal fuses on active leads. In some regions selected models are available with variable speed motors.

WATER DISTRIBUTION

Water supply connection to 1/2" BSP float valve. The pump is a centrifugal type with encapsulated windings. Patented distribution trays are moulded from polymer.

FILTER PADS

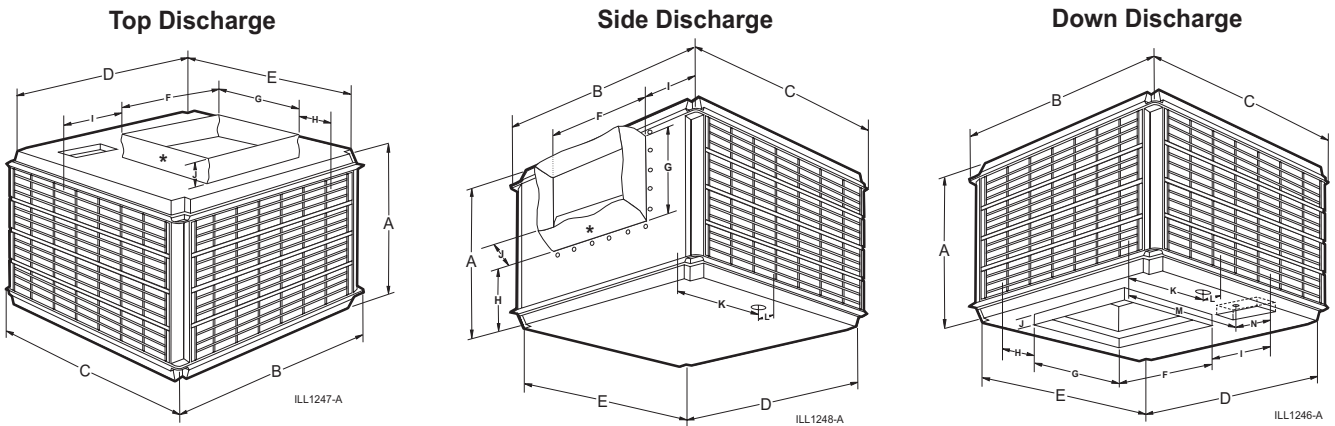
The cooling pads are made of Aspen shredded wood.

SPECIFICATIONS			EA 90D/DV	EA 90S/SV	EA 90T
AIR FLOW	High speed (l/s)at 80pa	l/sec	1630	1531	1630
COOLING CAPACITY	*	Kw	8.72	7.20	8.72
POWER CONSUMPTION (TOTAL)		watts	850	850	850
FAN	Dia x Width	mm	380 x 380	380 x 380	380 x 380
	Shaft & Bearings	mm	22sq/6006-2RS	22sq/6006-2RS	22sq/6006-2RS
	Pulley PCD	mm	205 x A	205 x A	205 x A
	2 Speed (high/low)	rpm	530/350	530/350	530/350
	Variable Speed Range	rpm	530 to 190	530 to 190	Not Available
	V Belt 230/50, 115/60		A50	A50	A45
	V Belt 220/60		Not Available	A49	A45
MOTOR	Output (high/low)	watts	550/165	550/165	550/165
	Type		PSC	PSC	PSC
	2 Speed (high/low)	rpm	1400/960	1400/960	1400/960
	Variable Speed Range	rpm	1400 to 600	1400 to 600	Not Available
	Voltage/Phases/Hz		230 ▽ 10% /1/50, 60 115 ▽ 10% /1/60	230 ▽ 10% /1/50, 60 115 ▽ 10% /1/60	230 ▽ 10% /1/50, 60 115 ▽ 10% /1/60
	Current 2 Speed (high/low)	amps	3.6/2.4	3.6/2.4	3.6/2.4
	Current variable (high)	amps	3.6	3.6	Not Available
	Pulley Type		Variable Pitch	Variable Pitch	Variable Pitch
	Pulley PCD 230/50, 115/60	mm	100-80 x A	100-80 x A	100-80 x A
	Pulley PCD 220/60	mm	Not Available	85-60 x A	100-80 x A
PUMP	Type		Centrifugal	Centrifugal	Centrifugal
	Rating (Input)	watts	30	30	30
	Flow Rate	litres/minute	21	21	21
	Voltage/Phases/Hz		230 ▽ 10% /1/50, 60 115 ▽ 10% /1/60	230 ▽ 10% /1/50, 60 115 ▽ 10% /1/60	230 ▽ 10% /1/50, 60 115 ▽ 10% /1/60
COOLING PAD	Size	mm	570 x 800	570 x 800	570 x 800
	Number of Pads		4	3	4
	Pad Area	m ²	1.8	1.4	1.8
	Maximum Velocity	m/sec	0.91 (@80pa)	1.16 (@80pa)	0.91 (@80pa)
	Saturation Efficiency	%	88.0	84.9	88.0
WATER	Tank Capacity	litres	25	38	38
	Drain	mm	40 BSP	40 BSP	40 BSP
SHIPPING	Dimensions (inc. Pallet)	mm	945 x 1005 x 885(H)	945 x 1005 x 885(H)	945 x 1005 x 885(H)
	Volume	m ³	0.84	0.84	0.84
	Mass - Shipping	kg	72	72	72
	Mass - Nett Unit	kg	60	60	60
	Mass - Operating	kg	98	98	98

* Cooling capacity calculated to Australian standard AS 2913 - 2000, ambient of 38deg C dry bulb & 21 deg C wet bulb, with room exit temperature of 27.4 deg C.

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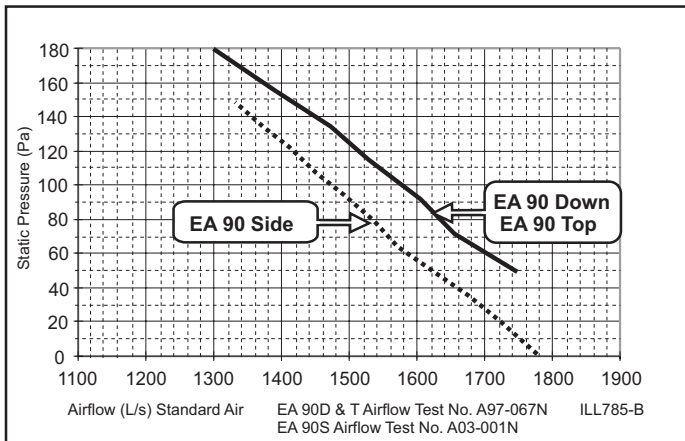
TECHNICAL DATA – EA 90



*** Note: For canvas connection use maximum duct size 500 x 380mm. Where possible always expand duct quickly to minimum 500 x 500mm to reduce friction. Expansion angle recommended 15 to 20 degrees.**

Model	A	B	C	D	E	F	G	H	I	J	K	L
Top	760	1005	945	930	870	580	450	90	200	40	565	110
Side	760	1005	945	930	870	506	392	298	237	120	565	110
Down	760	1005	945	930	870	552	552	135	214	50	565	110

Dimensions are in mm.

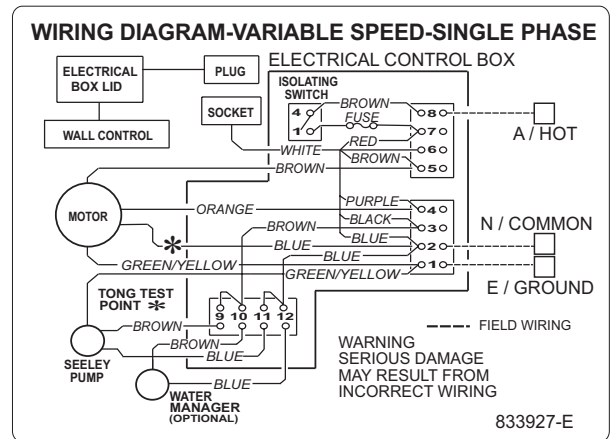
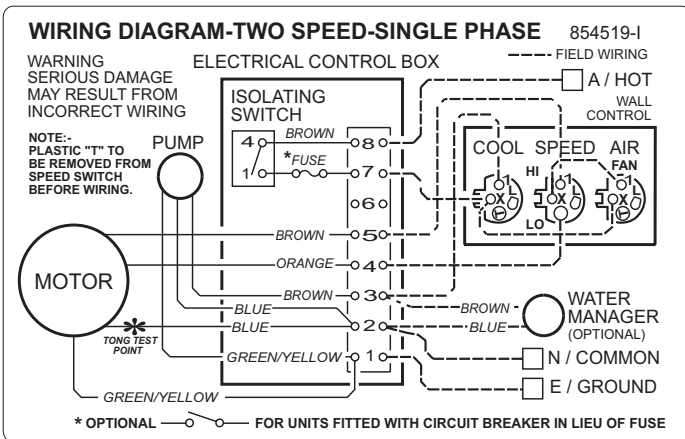


Airflow performance has been measured in accordance with Australian Standard AS 2913 - 2000 iEvaporative Air Conditioning Equipment by Meridian Laboratories Pty Ltd *.



*Meridian Laboratories is registered by the National Association of Testing Authorities, Australia. The tests reported herein have been performed in accordance with its terms of registration.

Registration Number: 3697



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TECHNICAL DATA – EA 120

CABINET and WATER RESERVOIR

The cabinet and water reservoir are constructed from injection moulded high strength structural polymer, incorporating UV inhibitor additives. All cabinet and reservoir mouldings are slate grey in colour.

FAN

The fan is a centrifugal type with forward curved blades and double inlets, moulded in one piece from polypropylene. It is inherently, statically and dynamically balanced.

FAN SHAFT AND BEARINGS

The fan shaft is stainless steel, hollow square section. This provides efficient torque transfer without the use of screw fastenings. Sealed bearings are located with resilient mounts.

FAN HOUSING

The fan housing is moulded from high strength structural polymer, incorporating resilient mounts for the shaft.

LOUVRE PANELS

Louvre panels are moulded in high strength structural polymer with UV inhibitor additives, incorporating supports to minimise cooling pad sag.

FAN MOTOR

Motors are tropic proofed two speed, single phase type, with sealed ball bearings and resilient mounts. For safety, the motor is fitted with auto re-set overloads and one time thermal fuses on active leads. In some regions selected models are available with variable speed motors.

WATER DISTRIBUTION

Water supply connection to 1/2" BSP float valve. The pump is a centrifugal type with encapsulated windings. Patented distribution trays are moulded from polymer.

FILTER PADS

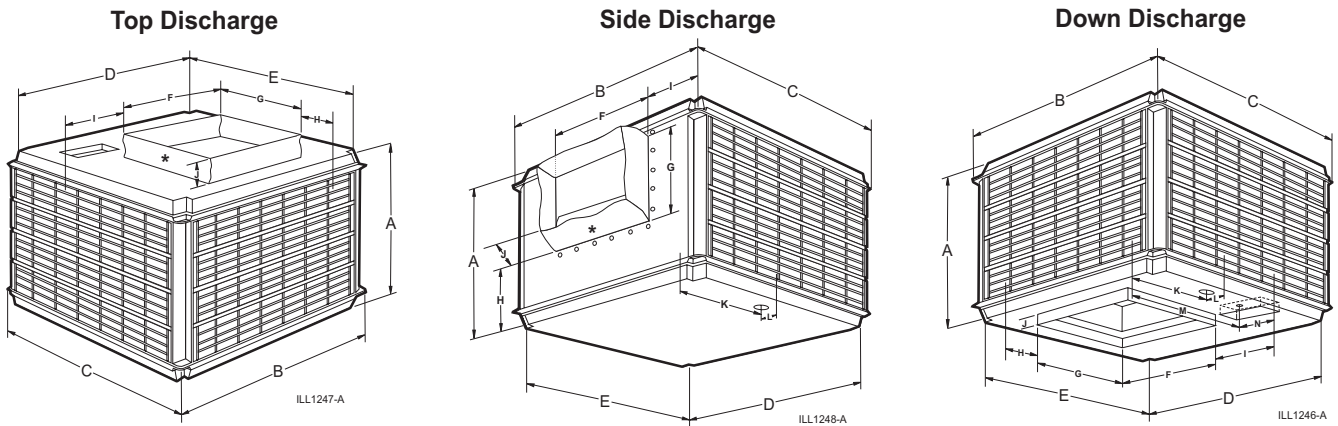
The cooling pads are made of Aspen shredded wood.

SPECIFICATIONS			EA 120D/DV	EA 120S/SV	EA 120T/TV
AIR FLOW	High speed (l/s) at 80pa	l/sec	2270	2220	2270
COOLING CAPACITY	*	Kw	10.82	13.96	10.82
POWER CONSUMPTION (TOTAL)		watts	1150	1150	1150
FAN	Dia x Width	mm	460 x 380	460 x 380	460 x 380
	Shaft & Bearings	mm	22sq/6006-2RS	22sq/6006-2RS	22sq/6006-2RS
	Pulley PCD 230/50, 220/60	mm	205 x A	205 x A	205 x A
	Pulley PCD 230/50 (Egypt), 115/60	mm	225 x A	225 x A	225 x A
	2 Speed (high/low)	rpm	420/280	420/280	420/280
	Variable Speed Range	rpm	420 to 175	420 to 175	420 to 175
	V Belt 230/50, 220/60		A54, A53(220D/DV)	A54	A47
	V Belt 115/60		A55(DV), A54(D)	A56(SV), A55(S)	A48
MOTOR	Output (high/low)	watts	750/225	750/225	750/225
	Type		PSC	PSC	PSC
	2 Speed (high/low)	rpm	1400/960	1400/960	1400/960
	Variable Speed Range	rpm	1400 to 600	1400 to 600	1400 to 600
	Voltage/Phases/Hz		230 ▽ 10% /1/50,60 115 ▽ 10% /1/60	230 ▽ 10% /1/50,60 115 ▽ 10% /1/60	230 ▽ 10% /1/50,60 115 ▽ 10% /1/60
	Current 2 Speed (high/low)	amps	5.4/3.4	5.4/3.4	5.4/3.4
	Current variable (high)	amps	5.2	5.2	5.2
	Pulley Type		Variable Pitch	Variable Pitch	Variable Pitch
	Pulley PCD 115/60, 220/60, 230/50	mm	85-60 x A	85-60 x A	85-60 x A
	Pulley PCD 230/50 (Egypt)	mm		100-80 x A	
PUMP	Type		Centrifugal	Centrifugal	Centrifugal
	Rating (Input)	watts	30	30	30
	Flow Rate	litres/minute	19	19	19
	Voltage/Phases/Hz		230 ▽ 10% /1/50,60 115 ▽ 10% /1/60	230 ▽ 10% /1/50,60 115 ▽ 10% /1/60	230 ▽ 10% /1/50,60 115 ▽ 10% /1/60
COOLING PAD	Size	mm	870 x 800	870 x 800	870 x 800
	Number of Pads		4	3	4
	Pad Area	m ²	2.8	2.1	2.8
	Maximum Velocity	m/sec	0.80 (@80pa)	1.07 (@80pa)	0.80 (@80pa)
	Saturation Efficiency	%	85.2	92.5	85.2
WATER	Tank Capacity	litres	25	38	38
	Drain	mm	40 BSP	40 BSP	40 BSP
SHIPPING	Dimensions (inc. Pallet)	mm	945 x 1005 x 1185(H)	945 x 1005 x 1185(H)	945 x 1005 x 1185(H)
	Volume	m ³	1.13	1.13	1.13
	Mass - Shipping	kg	83	83	83
	Mass - Nett Unit	kg	68	68	68
	Mass - Operating	kg	95	106	106

* Cooling capacity calculated to Australian standard AS 2913 - 2000, ambient of 38deg C dry bulb & 21 deg C wet bulb, with room exit temperature of 27.4 deg C.

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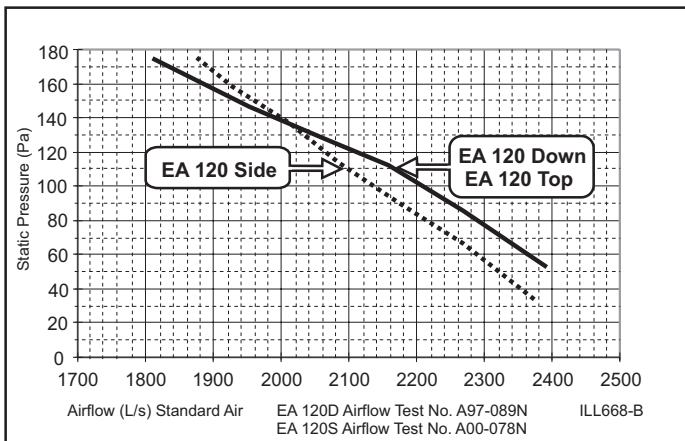
TECHNICAL DATA – EA 120



*** Note: For canvas connection use maximum duct size 500 x 380mm. Where possible always expand duct quickly to minimum 500 x 500mm to reduce friction. Expansion angle recommended 15 to 20 degrees.**

Model	A	B	C	D	E	F	G	H	I	J	K	L
Top	1060	1005	945	930	870	580	460	90	200	40	565	110
Side	1060	1005	945	930	870	506	385	395	237	120	565	110
Down	1060	1005	945	930	870	552	552	45	214	50	565	110

Dimensions are in mm.

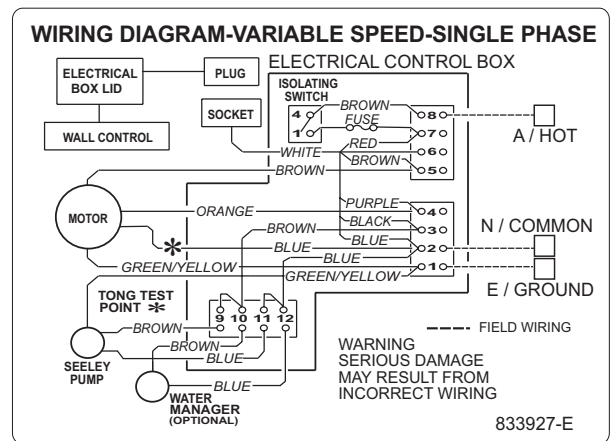
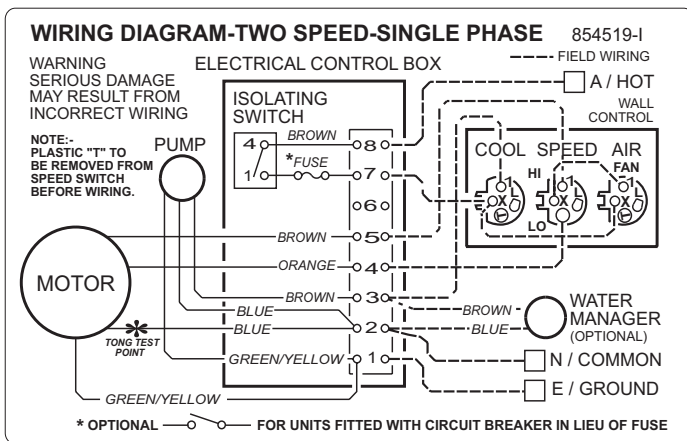


Airflow performance has been measured in accordance with Australian Standard AS 2913 - 2000 iEvaporative Air Conditioning Equipment† by Meridian Laboratories Pty Ltd *.



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TECHNICAL DATA – EA 150

CABINET and WATER RESERVOIR

The cabinet and water reservoir are constructed from injection moulded high strength structural polymer, incorporating UV inhibitor additives. All cabinet and reservoir mouldings are slate grey in colour.

FAN

The fan is a centrifugal type with forward curved blades and double inlets, moulded in one piece from polypropylene. It is inherently, statically and dynamically balanced.

FAN SHAFT AND BEARINGS

The fan shaft is stainless steel, hollow square section. This provides efficient torque transfer without the use of screw fastenings. Sealed bearings are located with resilient mounts.

FAN HOUSING

The fan housing is moulded from high strength structural polymer, incorporating resilient mounts for the shaft.

LOUVRE PANELS

Louvre panels are moulded in high strength structural polymer with UV inhibitor additives, incorporating supports to minimise cooling pad sag.

FAN MOTOR

Motors are tropic proofed two speed, single phase type, with sealed ball bearings and resilient mounts. For safety, the motor is fitted with auto-set overloads and one time thermal fuses on active leads. In some regions selected models are available with variable speed motors.

WATER DISTRIBUTION

Water supply connection to 1/2" BSP float valve. The pump is a centrifugal type with encapsulated windings. Patented distribution trays are moulded from polymer.

FILTER PADS

The cooling pads are made of Aspen shredded wood.

SPECIFICATIONS

EA 150D/DV

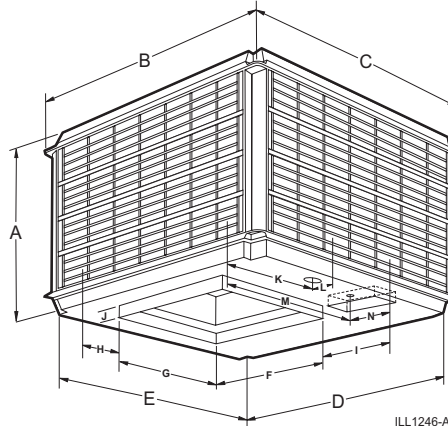
AIR FLOW	High speed (l/s) at 80pa	l/sec	2860
COOLING CAPACITY	*	Kw	10.77
POWER CONSUMPTION (TOTAL)		watts	2200
FAN	Dia x Width	mm	460 x 380
	Shaft & Bearings	mm	22sq/6006-2R
	Pulley PCD	mm	225 x A
	2 Speed (high/low)	rpm	470/310
	Variable Speed Range	rpm	470 to 195
MOTOR	V Belt		HI PWR II A56
	Output (high/low)	watts	1500/450
	Type		PSC
	2 Speed (high/low)	rpm	1400/960
	Variable Speed Range	rpm	1130 to 600
	Voltage/Phases/Hz		230 ▼ 10% /1/50
	Current 2 Speed (high/low)	amps	8.6/5.7
	Current variable (high)	amps	8.6
	Pulley Type		Variable Pitch
	Pulley PCD	mm	100-80 x A
PUMP	Type		Centrifugal
	Rating (Input)	watts	30
	Flow Rate	litres/minute	19
	Voltage/Phases/Hz		230 ▼ 10% /1/50
COOLING PAD	Size	mm	870 x 800
	Number of Pads		4
	Pad Area	m ²	2.8
	Maximum Velocity	m/sec	1.08 (@80pa)
	Saturation Efficiency	%	80.4
WATER	Tank Capacity	litres	25
	Drain	mm	40 BSP
SHIPPING	Dimensions (inc. Pallet)	mm	945 x 1005 x 1185(H)
	Volume	m ³	1.13
	Mass - Shipping	kg	88
	Mass - Nett Unit	kg	75
	Mass - Operating	kg	100

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TECHNICAL DATA – EA 150

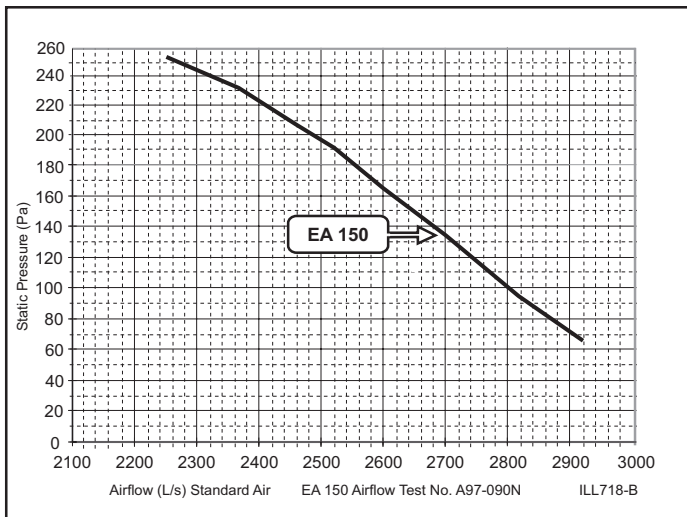
Down Discharge



ILL1246-A

Model	A	B	C	D	E	F	G	H	I	J	K	L
Down	1060	1005	945	930	870	552	552	45	214	50	565	110

Dimensions are in mm.

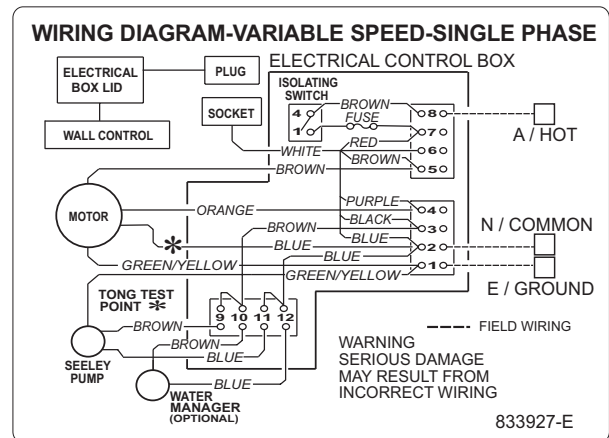
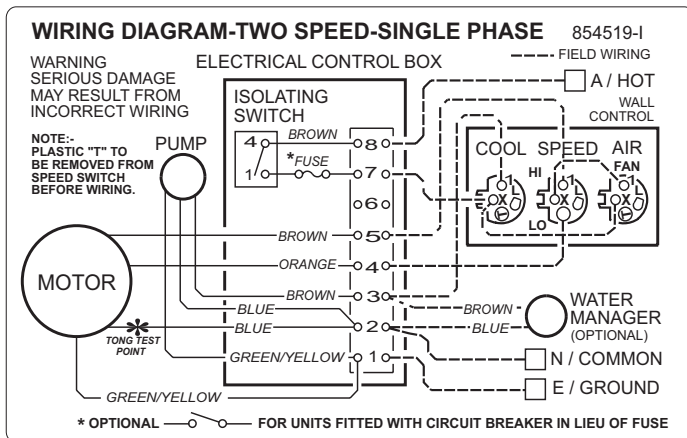


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