

MDV Series - Electric Boosted Open Circuit Split Systems

MLV and MCSV Systems

Model	272MLV	273MLV	322MLV	323MLV	412MLV	413MLV	414MLV	272MCSV	322MCSV	412MCSV	413MCSV
Tank Model	270MDV	270MDV	320MDV	320MDV	410MDV	410MDV	410MDV	270MDV	320MDV	410MDV	410MDV
Collector	L	L	L	L	L	L	L	CSA2007	CSA2007	CSA2007	CSA2007
No. of collectors	2	3	2	3	2	3	4	2	2	2	3

Solar Storage Tank				
Tank Model		270MDV	320MDV	410MDV
Storage capacity	litres	270	320	410
	US gal	71.3	84.5	108.3
Boost capacity (electric)	litres	140	170	220
	US gal	37	44.9	58.1
Installation		Indoor / Outdoor		
Solar controller kit	PN 299284	1	1	1
Weight empty	kg	78	88	109
	lbs	172	194	241
Weight full	kg	348	414	525
	lbs	767	912	1158
Height	m	1.395	1.640	1.840
	in	54.9	64.6	72.5
Width	m	0.640	0.640	0.690
	in	25.2	25.2	27.2
Depth	m	0.680	0.680	0.730
	in	26.8	26.8	28.7

Electric Boost Specifications					
Heating unit type	Copper sheath Immersion element				
Supply voltage	240V 50Hz				
Recovery rate @ 240 V and temperature rise of:					
Rating kW	Current Amps	30°C litres/hour	40°C litres/hour	50°C litres/hour	
3.6	15	103	77	62	

Water Supply				
TPR valve setting	kPa	1000	psi	145
ECV* setting	kPa	850	psi	125
Max. supply pressure with ECV without ECV	kPa	680	psi	100
	kPa	800	psi	115
Min. supply pressure	kPa	200	psi	29
Water Connections	cold	Rp 3/4		
	hot	Rp 3/4		
	solar	DN15 compression fittings (solar hot and solar cold inlets to tank Rp 3/4)		

*Expansion Control Valve (ECV) is not supplied.

[^] Limited frost protection – these systems have a level of freeze protection designed to guard against freeze conditions. These systems have a Solahart warranty for freeze damage (Australia only – conditions apply) when the water heater is installed at an altitude not exceeding 400 m above sea level.
Harsh water regions – the Solahart warranty may not apply if the water heater is connected to a water supply which: is scaling with a Saturation Index > +0.8, or: is corrosive with a Saturation Index < -1.0, or: has a Total Dissolved Solids content >2500 mg/L.

Technical data is subject to change.

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Collectors General		L/CSA2007		L/CSA2007	
Aperture (heating) area	m ²	1.87	ft ²	20	
Dimensions	length	mm	1937 / 1996	in	76.3 / 78.6
	width	mm	1022 / 1043	in	40.3 / 41.1
	height	mm	77 / 82	in	3.0 / 3.2
Capacity	litres	1.5	US gal	0.4	
Working pressure	kPa	1000	psi	145	
L Collector					
Weight*	empty	kg	32	lbs	71
	full	kg	34	lbs	75
Absorber surface		Black polyester powder coat			
Absorber material		aluminium			
Riser material		copper tube			
Tray material		0.7mm aluminium			
Insulation material - base		38mm polyester blanket			
Glass		3.2mm tempered low iron glass			
CSA2007 Collector					
Weight*	empty	kg	36	lbs	80
	full	kg	38	lbs	84
Absorber surface		Tinox sputtered selective			
Absorber material		copper			
Riser material		copper tube			
Frame material		extruded aluminium			
Insulation material - base		38 mm glass wool blanket			
Glass		3.2mm tempered low iron glass			

*Weight includes fittings

Collector Installation				
Roof area dimensions		2	3	4
Length*	m	2.0	2.0	2.0
	in	78.8	78.8	78.8
Width*	m	2.3	3.4	4.5
	in	90.6	133.9	177.2
Solar kits - L collector				
Collector kit	PN 12104297	1	1	1
Collector add on kit	PN 12104405	0	1	2
Solar kits - CSA2007 collector				
Collector kit	PN 12103016	1	1	N/A
Collector add on kit	PN 12103017	0	1	N/A

*An additional 0.9m (35.4in) should be left on all four sides of the installation for safe access and servicing.

The Streamline MLV and MCSV systems can be installed as a solar preheater with an inline Solahart gas booster water heater. Refer to the Solahart gas booster specification sheet for further details on the gas booster.