

Cyclone

The new standard in unvented hot water generation.



Construction

- Cylinder manufactured from high grade Duplex stainless steel - specially selected for its high strength and resistance to stress and crevice corrosion.
- Lightweight construction.
- Flat base for additional stability.
- All plumbing connections are clearly identified and accessible at the front of the cylinder.
- Supplied with 22mm compression fittings.
- Primary heating coil for use with indirect systems.
- Solar input coil for use with solar thermal panel systems

High Performance

- Totally insulated with 100% CFC-Free (ODP zero) polyurethane to minimise heat loss (50mm thick).
- Long-life 3kW Incoloy immersion heater with integral thermostat.

Safety Controls

- 1/2" temperature and pressure release valve operating at 90°C/7 bar.
- Indirect thermal controls.

Superior Quality

The Joule range of un-vented cylinders are the UK's fastest growing cylinder brand. Built on quality and performance, with one of the widest ranges of models available you can be sure there is a model to suit. With the introduction of the Energy Related Product certificate scheme under an EU directive, Joule are leading the way by offering a complete range of A, B & C rated cylinders. The same quality you have been accustomed too is now available across all rated cylinders. The Cyclone brand is noted for its attractive grey finish. Noticeably there is no cheap plastic used on the outer casing. Inside only the best materials are used, duplex stainless steel body, 316L grade stainless fittings and coils. Our quality is nowhere better noticed then in the construction of our coils. Unlike most cheaper brands on the market Cyclone range of cylinders use high recovery smooth tube coils for optimal performance. No other coil type on the market today offers the same transfer rate as smooth stainless tube.



Inlet Control Group

TZG-3.0-0.75L
TZG-3.0-0001L



T&P Valve

TZ9-4.0-0000.5
TZ9-4.0-000.75



Cylinder Stat

TZC-D-0000000Z



Zone Valve

TZM-I-0000



Tundish

TZU-0000



Expansion Vessel

TV-P-000012L TV-P-000019L
TV-P-000024L TV-P-000035L
TV-P-000050L



Immersion Heater

THH-14-3-1

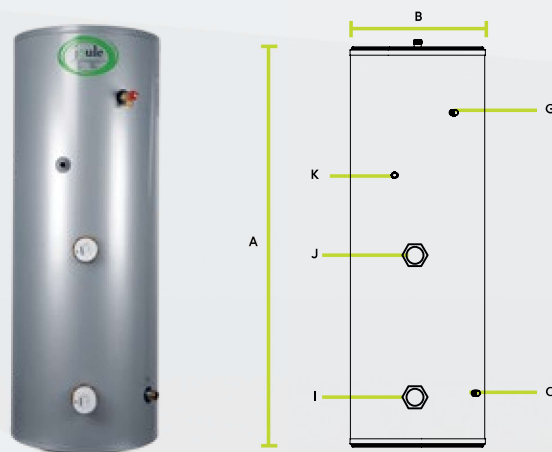


Selection Guide

			Kg	Kg		L		nWh%	Mins	W	kWh/ ANNUUM	Kw	Kw
			Weight Empty	Weight Full	Load Profile	Water Volume	ERP Energy Rating	Energy Efficiency	Reheat Time Indirect	Standing Loss	Annual Energy Usage	Primary Coil Rating	Solar Coil Rating
90/ 100	TCCEMVD-0090LFD	Direct	39	135	M	99	B	37	52	1.06	2740		
	TCCEMVI-0090LFB	Indirect	39	135		96	B		14	1.06		18	
	TCCEMVD-0100SFD	Direct Slimline	32	125	M	93	B	34	52	1.34	1513		
	TCCEMVI-0100SFC	Indirect Slimline	25	109		84	C		13	1.34		17	
	TCCEMVB-0100LFB	Direct Air	36	135	L	99	C	39		44	2650		
	TCCEMVA-0100LFB	Indirect Air	32	131		95	B		17	44		20	
120 /125	TCCEMVD-0125LFD	Direct	30	155	L	125	B	37	62	1.25	2773		
	TCCEMVI-0125LFB	Indirect	35	187		124	B		23	1.25		20	
	TCCEMVD-0125SFD	Direct Slimline	30	150	L	120	B	36	62	1.56	2826		
	TCCEMVI-0125SFC	Indirect Slimline	30	137		121	C		23	1.56		19	
	TCCEMVB-0120LFB	Direct Air	30	155	L	112	C	39		52	2654		
	TCCEMVA-0120LFB	Indirect Air	25	158		112	B		22	52		20	
150	TCCEMVE-0150LFD	Direct	34	184	L	150	B	37	76	1.32	2785		
	TCCEMVI-0150LFB	Indirect	35	210		148	B		26	1.32		20	
	TCCEMVD-0150SFD	Direct Slimline	34	184	L	150	B	36	76	1.68	2846		
	TCCEMVI-0150SFC	Indirect Slimline	39	187		148	C		26	1.68		19	
	TCCEMVE-0150LFD	Direct Solar	39	187		148	C		23	1.32			16
	TCCEMVH-0150LFB	High Gain Indirect	46	196		140	C		10	1.32		76	
	TCCEMVH-0150SFB	Slim High Gain Ind	35	175		140	C		26	1.68		76	
	TCCEMHS-0150LFC	Horizontal Indirect	39	187		141.2	C		26	1.51		20	
	TCCEMVB-0150LFB	Direct Air	34	184	L	139	C	39		55	2715		
	TCCEMVA-0150LFB	Indirect Air	29	187		139	B		26	55		20	
170 /180	TCCEMVE-0170LFD	Direct	39	207	L	170	C	37	96	1.39	2830		
	TCCEMVI-0170LFB	Indirect	43	210		168	B		27	1.39		20	
	TCCEMVD-0170SFD	Direct Slimline	38	208	L	170	C	37	96	1.90	2883		
	TCCEMVI-0170SFC	Indirect Slimline	44	212		168	C		27	1.90		19	
	TCCEMVE-0170LFD	Direct Solar	43	210		167	C		24	1.58			16
	TCCEMVS-0170LFB	Solar Twin	49	219		170	B		15	1.39		16	16
	TCCEMVS-0170SFC	Solar Twin Slimline	49	214		165	C		15	1.90		19	15
	TCCEMVH-0170LFB	High Gain Indirect	54	223		160	C		10	1.32		76	
	TCCEMVH-0170SFB	Slim High Gain Ind	39	199		160	C		27	1.90		86	
	TCCEMHI-0170LFC	Horizontal Indirect	43	210		168	C		27	1.66		20	
	TCCEMVB-0180LFB	Direct Air	37	207	L	159	C	38		58	2719		
	TCCEMVA-0180LFB	Indirect Air	43	210		159	B		30	58		20	
200 /210	TCCEMVD-0200LFC	Direct (Std)	41	241	L	200	C	36	119	1.94	2892		
	TCCEMVD-0200NFC	Direct (Srt)	40	240	L	200	C	36	119	1.87	2875		
	TCCEMVI-0200LFC	Indirect (Std)	47	244		196	C		31	1.94		21	
	TCCEMVI-0200NFC	Indirect (Srt)	46	243		194	C		31	1.87		23	
	TCCEMVD-0200SFC	Direct Slimline	40	245	L	205	C	37	119	2.02	2904		
	TCCEMVI-0200SFC	Indirect Slimline	46	241		195	C		31	2.02		22	
	TCCEMVE-0200LFD	Direct Solar (Std)	47	244		197	C		28	1.94			18
	TCCEMVE-0200NFD	Direct Solar (Srt)	46	243		197	C		28	1.87			18
	TCCEMVS-0200NFC	Solar Twin (Std)	50	247		197	C		21	1.99		16	18
	TCCEMVS-0200LFC	Solar Twin (Srt)	50	246		196	C		21	1.92		16	18
	TCCEMVS-0200SFC	Solar Twin Slimline	50	242		192	C		21	2.02		19	15
	TCCEMVH-0200NFC	High Gain Ind (Srt)	57	255		187	C		11	1.87		97	
	TCCEMVH-0200LFC	High Gain Ind (Sdt)	58	256		189	C		11	1.94		97	
	TCCEMVG-0200LFC	High Gain Solar	61	258		186	C		21	1.94		97	18
	TCCEMVH-0200SFC	Slim High Gain Ind	43	230		187	C		31	2.02		97	
	TCCEMVG-0200SFC	Slim High Gain Solar	45	202		157	C		15	1.90		86	16
	TCCEMHI-0200NFC	Horizontal Indirect	46	243		194	C		31	2.14		23	
	TCCEMVB-0250LFC	Direct Air	49	299	L	236	C	37		89	2764		
	TCCEMVA-0250LFC	Indirect Air	56	302		236	C		39	89		23	
	TCCEMVC-0250LFC	Twin Solar Air	49	299		236	B		39	89		23	23

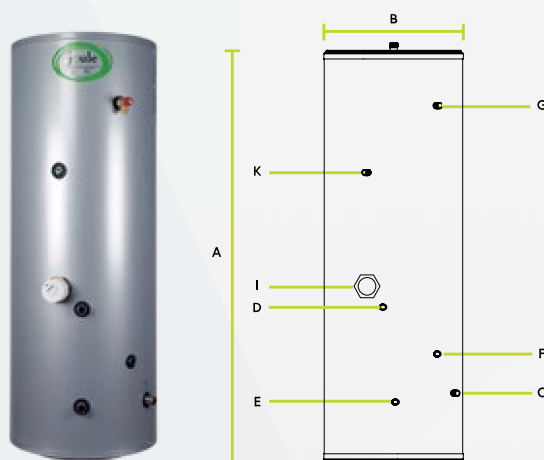
Selection Guide

			Kg	Kg		L		nWh%	Mins	W	kWh/ ANNUUM	Kw	Kw
			Weight Empty	Weight Full	Load Profile	Water Volume	ERP Energy Rating	Energy Efficiency	Reheat Time Indirect	Standing Loss	Annual Energy Usage	Primary Coil Rating	Solar Rating
250	TCEMVD-0250LFC	Direct (Std)	49	299	L	250	C	35	140	2.14	2908		
	TCEMVD-0250NFC	Direct (Shrt)	49	299	L	250	C	35	140	2.09	2928		
	TCEMVI-0250LFC	Indirect (Std)	57	303		247	C		37	2.09		23	
	TCEMVI-0250NFC	Indirect (Srt)	56	302		196	C		37	2.14		27	
	TCIMVE-0250LFD	Direct Solar (Std)	57	302		246	C		34	0.82			22
	TCIMVE-0250NFD	Direct Solar (Srt)	56	303		296	C		34	0.82			22
	TCEMVS-0250LFC	Solar Twin (Std)	60	308		248	C		27	2.18		18	22
	TCEMVS-0250NFC	Solar Twin (Srt)	59	307		248	C		27	2.30		18	22
	TCIMVH-0250LFC	High Gain Ind (Srt)	66	315		237	C		14	2.09		97	
	TCIMVH-0250NFC	High Gain Ind (Sdt)	67	316		236	C		14	2.14		110	
	TCIMVG-0250NFC	High Gain Solar (Srt)	46	230		184	C		21	2.02		97	16
	TCIMVG-0250LFC	High Gain Solar (Std)	70	318		240	C		27	2.14		97	22
	TCIMHI-0250NFC	Horizontal Indirect	56	302		247	C		37	2.33		27	
	TCEMVB-0250LFC	Direct Air	49	299	L	236	C	37		89	2764		
	TCEMVA-0250LFC	Indirect Air	56	302		236	C		39	89		23	
	TCEMVC-0250LFC	Twin Solar Air	49	299		236	B		39	89		23	23
300	TCEMVD-0300LFC	Direct (Std)	56	356	L	300	C	37	196	2.47	4565		
	TCEMVD-0300NFC	Direct (Shrt)	55	355	L	300	C	36	218	2.21	4610		
	TCEMVI-0300LFC	Indirect (Std)	64	360		289	C		42	2.21		23	
	TCEMVI-0300NFC	Indirect (Srt)	65	361		290	C		42	2.47		27	
	TCEMVS-0300LFC	Twin Solar	67	364		297	C		32	2.30		18	22
	TCIMVE-0300NFD	Direct Solar	64	360		296	C		39	2.21			22
	TCIMVH-0300NFC	High Gain Ind (Srt)	74	372		282	C		17	2.21		110	
	TCIMVH-0300LFC	High Gain Ind (Sdt)	75	373		378	D		17	2.47		110	
	TCIMVG-0300NFC	High Gain Solar	77	374		277	C		32	2.47		110	22
	TCIMHI-0300NFC	Horizontal Indirect	64	360		297	C		42	2.50		27	
	TCEMVB-0300LFC	Direct Air	55	355	XL	279	D	37		103	4508		
300	TCEMVA-0300LFC	Indirect Air	65	361		279	C		46	103		23	
	TCEMVC-0300LFC	Twin Solar Air	55	355		279	C		46	103		23	23
400	TCEMVI-0400LFC	Indirect	71	471		390	C		52	2.45		25	
	TCEMVS-0400LFC	Solar Twin	74	476		402	C		42	2.45		22	30
	TCIMVE-0400LFD	Direct Solar	71	471		400	C		48	2.45			30
	TCIMVH-0400LFC	High Gain Indirect	81	478		378	C		19	2.45		138	
	TCIMVG-0400LFC	High Gain Solar	84	486		381	C		42	2.45		138	30
	TCIMHI-0400NFC	Horizontal Indirect	71	471		400	C		68	2.69		40	
500	TCEMVI-0500LFC	Indirect	87	589		494	C		54	2.76		26	
	TCEMVS-0500LFC	Solar Twin	87	589		502	C		49	2.76		22	36
	TCIMVE-0500LFD	Direct Solar	87	589		502	C		54	2.45			35
	TCIMHI-0500NFC	High Gain Indirect	107	605		494	C		22	2.76		138	
	TCIMVG-0500NFC	High Gain Solar	107	609		479	C		49	2.76		138	35
	TCIMHI-0500NFC	Horizontal Indirect	87	589		502	C		75	3.00		43	



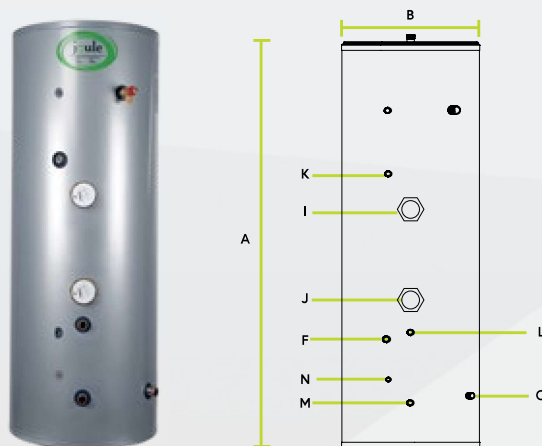
Direct

		A	B	C	G	I	J	K
		HEIGHT	DIAMETER	COLD WATER INLET	T&P RELIEF VALVE	IMMERSION HEATER BOTTOM	IMMERSION HEATER TOP	SECONDRY RETURN
90	TCEMVD-0090LFD	750	540	188	743	203	468	628
125	TCEMVD-0125LFD	1030	540	196	751	211	511	651
150	TCEMVD-0150LFD	1190	540	196	911	211	561	786
170	TCIMVE-0170LFD	1310	540	196	1031	211	631	881
200	TCEMVD-0200NFC	1150	600	218	883	211	701	981
200	TCEMVD-0200LFC	1490	540	196	1211	233	553	768
250	TCEMVD-0250NFC	1400	600	218	1133	211	861	968
250	TCEMVD-0250LFC	1815	540	196	1531	233	653	1271
300	TCEMVD-0300NFC	1600	600	218	1333	211	1001	1153
300	TCEMVD-0300LFC	2040	540	196	1811	233	733	1551



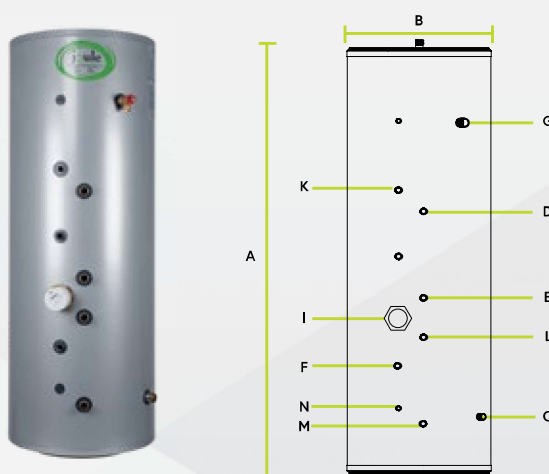
Indirect

		A	B	C	D	E	F	G	I	K
		HEIGHT	DIAMETER	COLD WATER INLET	PRIMARY COIL FLOW	PRIMARY COIL RETURN	AQUASTAT POCKET BOTTOM	T&P RELIEF VALVE	IMMERSION HEATER BOTTOM	SECONDRY RETURN
90 /100	TCEMVI-0090LFB	750 (950)	540 (500)	188	478	188	333	743	543	628
125	TCEMVI-0125LFB	1030	540	196	511	196	211	751	651	751
150	TCEMVI-0150LFB	1190	540	196	486	196	341	911	551	786
170	TCEMVI-0170LFB	1310	540	196	486	486	341	1031	551	881
200	TCEMVI-0200LFC	1490	540	196	516	538	336	1211	581	768
200	TCEMVI-0200NFC	1150	600	218	538	516	423	883	603	981
250	TCEMVI-0250LFC	1815	540	196	586	608	361	1531	651	1271
250	TCEMVI-0250NFC	1400	600	218	608	586	383	1133	673	968
300	TCEMVI-0300LFC	2040	540	196	586	608	361	1811	651	1551
300	TCEMVI-0300NFC	1600	600	218	608	586	383	1333	673	1153
400	TCEMVI-0400LFC	1570	710	225	675	675	405	1280	740	1180
500	TCEMVI-0500LFC	1900	710	225	745	745	455	1640	810	1440



Direct Solar

		A	B	C	F	G	I	J	K	L	M	N
		HEIGHT	DIAMETER	COLD WATER INLET	AQUASTAT POCKET BOTTOM	T&P RELIEF VALVE	IMMERSION HEATER BOTTOM	IMMERSION HEATER TOP	SECONDARY RETURN	SOLAR COIL FLOW	SOLAR COIL RETURN	SOLAR SENSOR
150	TCIMVE-0150LFD	1395	540	196	346	911	511	636	762	446	196	246
170	TCIMVE-0170LFD	1555	540	196	346	1031	511	731	882	446	196	246
200	TCIMVE-0200NFD	1150	600	218	368	883	533	668	768	468	218	268
200	TCIMVE-0200LFD	1490	540	196	386	1211	551	821	981	486	196	246
250	TCIMVE-0250NFD	1400	600	218	438	1133	603	833	968	538	218	268
250	TCIMVE-0250LFD	1815	540	196	416	1531	581	931	1271	516	196	246
300	TCIMVE-0300NFD	1600	600	218	438	1333	603	968	1153	615	218	268
400	TCIMVE-0400LFD	1570	710	225	430	1290	680	915	1190	538	225	275
500	TCIMVE-0500LFD	1900	710	225	430	1640	680	1150	1440	615	225	275

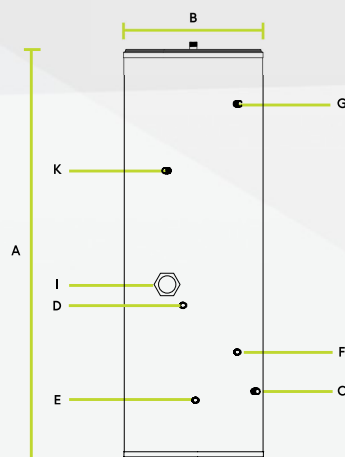
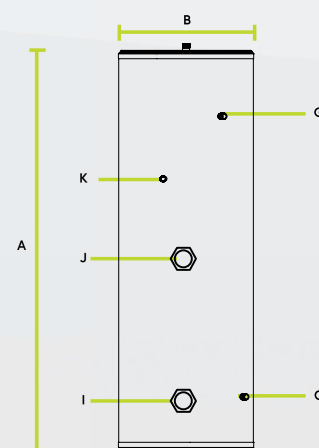


Twin Solar

		A	B	C	D	E	F	G	I	K	L	M	N
		HEIGHT	DIAMETER	COLD WATER INLET	PRIMARY COIL FLOW	PRIMARY COIL RETURN	AQUASTAT POCKET BOTTOM	T&P RELIEF VALVE	IMMERSION HEATER BOTTOM	SECONDARY RETURN	SOLAR COIL FLOW	SOLAR COIL RETURN	SOLAR SENSOR
170	TCEMVS-0170LFB	1310	540	196	826	576	346	1031	511	882	446	196	246
200	TCEMVS-0200LFC	1490	540	218	768	598	368	883	533	848	468	218	268
200	TCEMVS-0200NFC	1150	600	196	906	616	386	1211	551	981	486	196	246
250	TCEMVS-0250NFC	1400	600	218	1053	668	438	1133	603	968	538	218	268
250	TCEMVS-0250LFC	1815	540	196	1031	646	416	1531	581	1271	516	196	246
300	TCEMVS-0300LFC	1600	600	218	1053	668	438	1333	603	1153	538	218	268
400	TCEMVS-0400LFC	1570	710	225	1130	745	430	1280	680	1180	615	225	275
500	TCEMVS-0500LFC	1900	710	225	1130	745	430	1640	680	1440	615	225	275

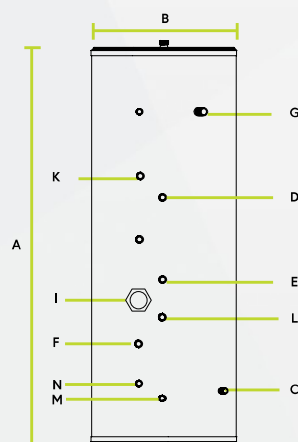
Slimline Direct

		A	B	C	G	I	J	K
		HEIGHT	DIAMETER	COLD WATER INLET	T&P RELIEF VALVE	IMMERSION HEATER BOTTOM	IMMERSION HEATER TOP	SECONDARY RETURN
100	TCEMVD-0100SFD	950	475	191	746	206	471	631
125	TCEMVD-0125SFD	1085	475	191	901	206	506	761
150	TCEMVD-0150SFD	1335	475	191	1151	206	576	1001
170	TCEMVD-0170SFD	1535	475	191	1301	206	771	1151
200	TCEMVD-0200SFC	1880	475	191	1601	206	896	1351



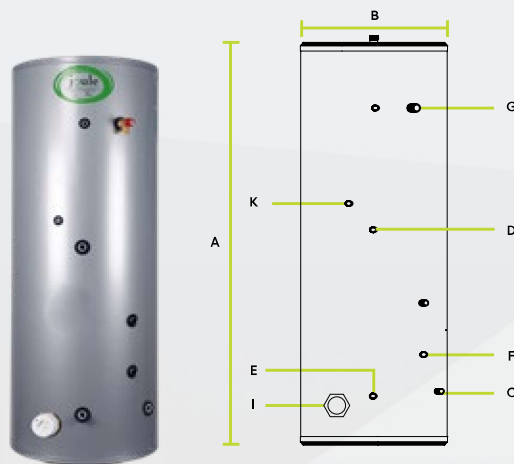
Slimline Indirect

		A	B	C	D	E	F	G	J	K
		HEIGHT	DIAMETER	COLD WATER INLET	PRIMARY COIL FLOW	PRIMARY COIL RETURN	AQUASTAT POCKET BOTTOM	T&P RELIEF VALVE	IMMERSION HEATER BOTTOM	SECONDARY RETURN
100	TCEMVI-0100SFC	950	475	191	481	191	311	746	546	631
125	TCEMVI-0125SFC	1085	475	191	481	191	336	901	546	761
150	TCEMVI-0150SFC	1335	475	191	486	191	336	1151	546	1001
170	TCEMVI-0170SFC	1535	475	191	576	191	384	1301	641	1151
200	TCEMVI-0200SFC	1880	475	191	511	191	351	1601	576	1351



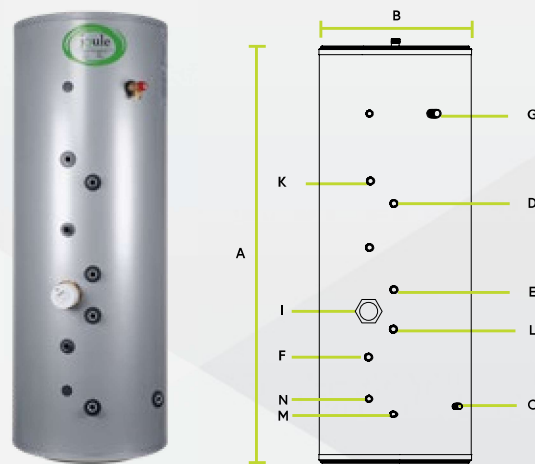
Slim High Gain Solar

		A	B	C	D	E	F	G	I	K	L	M	N
		HEIGHT	DIAMETER	COLD WATER INLET	PRIMARY COIL FLOW	PRIMARY COIL RETURN	AQUASTAT POCKET BOTTOM	T&P RELIEF VALVE	IMMERSION HEATER BOTTOM	SECONDARY RETURN	SOLAR COIL FLOW	SOLAR COIL RETURN	SOLAR SENSOR
170	TCIMVG-0170SFC	1535	475	191	1151	581	381	1301	531	1241	481	225	241
200	TCIMVG-0200SFC	1880	475	191	1351	676	396	1601	626	1476	576	225	241



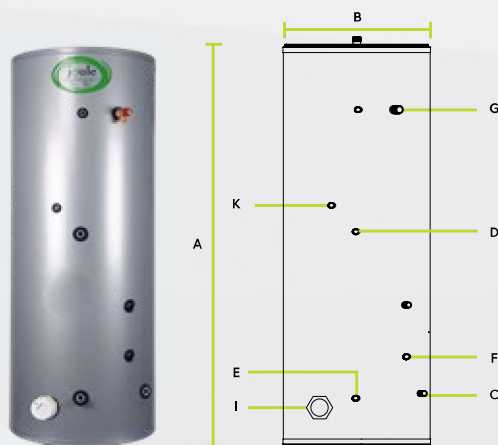
High Gain Indirect

		A	B	C	D	E	F	G	I	K
		HEIGHT	DIAMETER	COLD WATER INLET	PRIMARY COIL FLOW	PRIMARY COIL RETURN	AQUASTAT POCKET BOTTOM	T&P RELIEF VALVE	IMMERSION HEATER BOTTOM	SECONDARY RETURN
150	TCIMVH-0150LFB	1190	540	196	861	261	376	911	211	786
170	TCIMVH-0170LFB	1310	540	196	861	261	406	1031	211	881
200	TCIMVH-0200NFC	1150	600	218	793	283	433	883	233	763
200	TCIMVH-0200LFC	1490	540	196	911	261	451	1211	211	981
250	TCIMVH-0250NFC	1400	600	218	893	283	483	1133	233	968
250	TCIMVH-0250LFC	1815	540	196	1011	261	561	1531	211	1271
300	TCIMVH-0300NFC	1600	600	218	983	283	508	1333	233	1153
300	TCIMVH-0300LFC	2040	540	196	1112	261	586	1812	211	1552
400	TCIMVH-0400LFC	1570	710	225	1190	290	540	1290	240	1190
500	TCIMHI-0500NFC	1900	710	225	1190	290	540	1640	240	1440



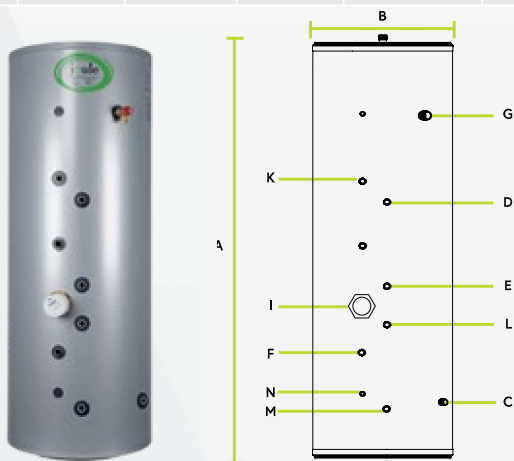
High Gain Solar

		A	B	C	D	E	F	G	I	K	L	M	N
		HEIGHT	DIAMETER	COLD WATER INLET	PRIMARY COIL FLOW	PRIMARY COIL RETURN	AQUASTAT POCKET BOTTOM	T&P RELIEF VALVE	IMMERSION HEATER BOTTOM	SECONDARY RETURN	SOLAR COIL FLOW	SOLAR COIL RETURN	SOLAR SENSOR
200	TCIMVG-0200LFC	1490	540	196	981	586	386	1211	536	1136	486	196	246
250	TCIMVG-0250LFC	1815	540	196	1271	576	406	1531	606	1376	516	196	246
250	TCIMVG-0250NFC	1400	600	218	968	568	388	1133	518	1118	468	218	268
300	TCIMVG-0300NFC	1600	600	218	1153	628	438	1333	578	1328	538	218	268
400	TCIMVG-0400LFC	1570	710	225	1190	515	375	1290	465	1285	415	225	275
500	TCIMVG-0500NFC	1900	710	225	1440	735	430	1640	675	1635	615	225	275



Slim High Gain Indirect

		A	B	C	D	E	F	G	I	K
		HEIGHT	DIAMETER	COLD WATER INLET	PRIMARY COIL FLOW	PRIMARY COIL RETURN	AQUASTAT POCKET BOTTOM	T&P RELIEF VALVE	IMMERSION HEATER BOTTOM	SECONDARY RETURN
150	TCIMVH-0150SFB	1335	475	191	976	191	336	1151	206	1001
170	TCIMVH-0170SFB	1535	475	191	1006	191	384	1301	206	1151
200	TCIMVH-0200SFC	1880	475	191	1006	191	351	1601	206	1351



Slim Twin Solar

		A	B	C	D	E	F	G	I	K	L	M	N
		HEIGHT	DIAMETER	COLD WATER INLET	PRIMARY COIL FLOW	PRIMARY COIL RETURN	AQUASTAT POCKET BOTTOM	T&P RELIEF VALVE	IMMERSION HEATER BOTTOM	SECONDARY RETURN	SOLAR COIL FLOW	SOLAR COIL RETURN	SOLAR SENSOR
170	TCEMVS-0170SFC	1535	475	191	996	706	476	1301	641	1151	576	191	241
200	TCEMVS-0200SFC	1880	475	191	996	706	476	1601	641	1351	576	191	241

Horizontal Indirect

Capacity	150L	170L	200L	250L	300L	400L	500L
Code	TCIM-HI-0150LFB	TCIM-HI-0170LFC	TCIM-HI-0200NFC	TCIM-HI-0250NFC	TCIM-HI-0300NFC	TCIM-HI-0400LFC	TCIM-HI-0500LFC
Length (A)	1140	1205	1085	1335	1535	1535	1880
Diameter (B)	540	540	600	600	600	710	710
Weight (empty)	39	43	46	56	64	71	87
Weight (full)	187	210	243	302	360	471	589
Hot water volume	148	168	194	247	97	400	502
Load profile							
Energy Efficiency Class	C	C	C	C	C	C	C
Heat up Time - coil (Mins)	26	27	31	37	42		
Standing Loss (W)	63	69	89	97	104	112	125

