

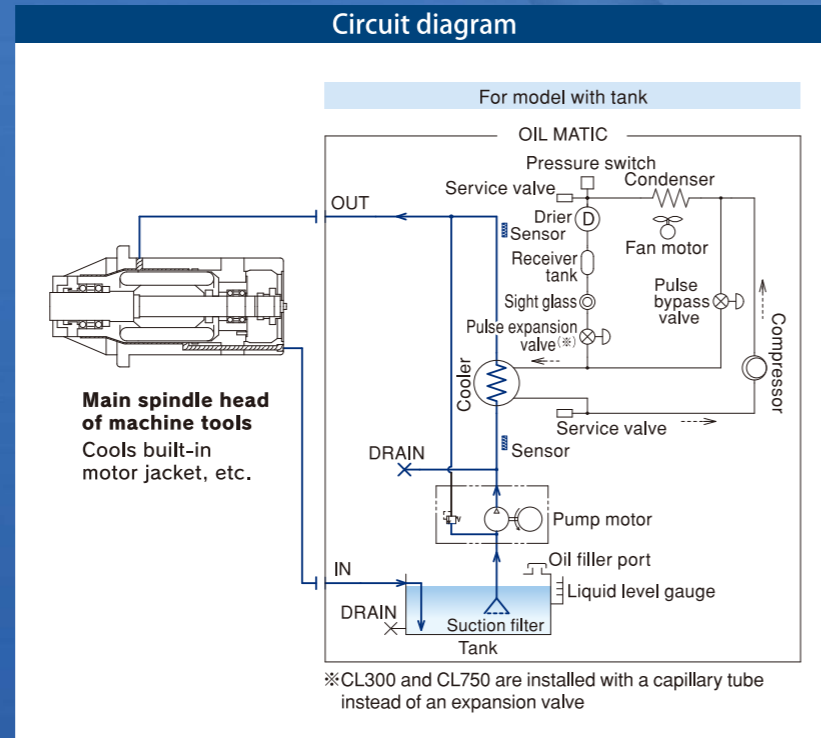
## Series C/CL

Circulation (closed) type

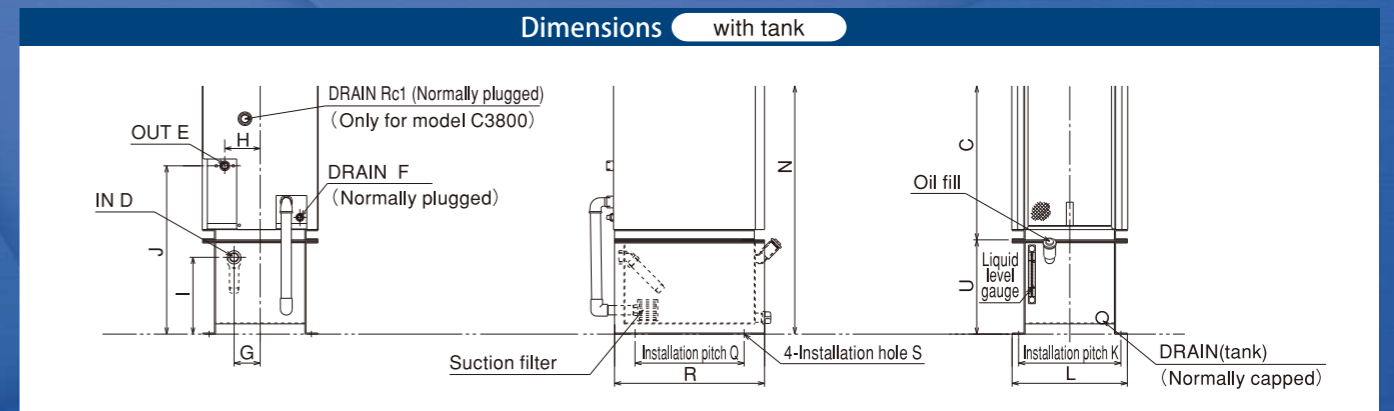
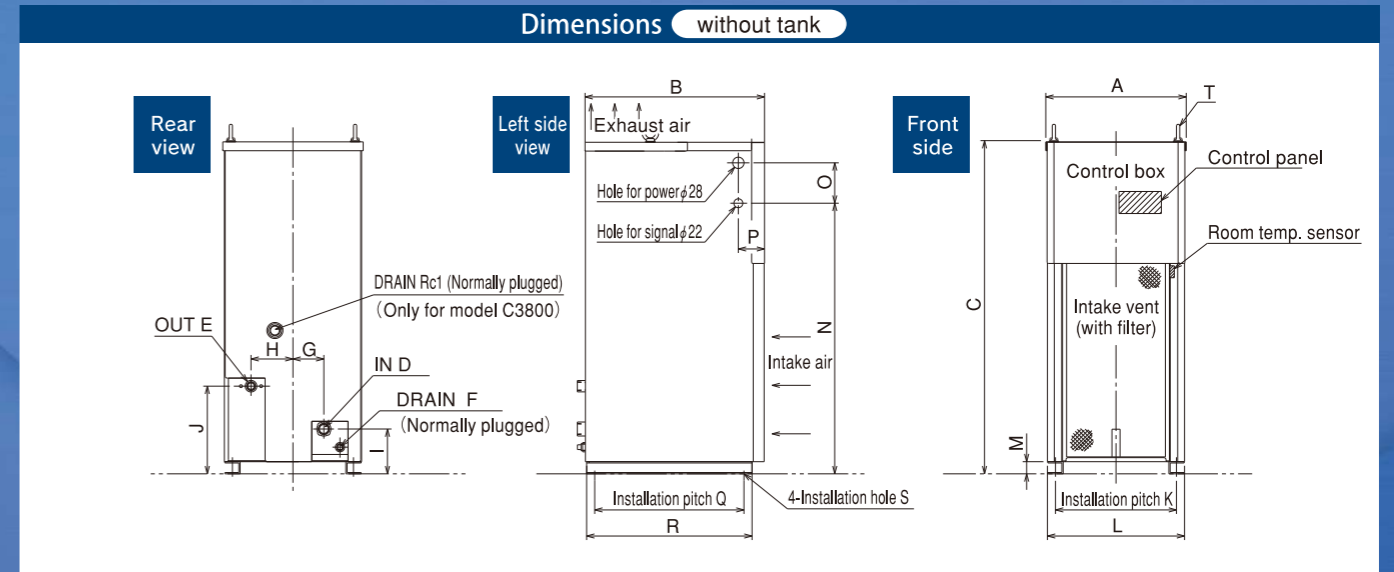
For cooling main spindle, operating oil and lubricant oil



C750



±0.1~0.2°C Inverter control method INVERTER	±0.1~0.2°C Gas bypass PID control method G/B PID	Cools main spindle	Cools operating oil	Cools lubricant oil	Cools linear motor	Cools ball screws	Cools machine body
Options implemented		With casters	With heater	熱帯 (Tropical) (passing) treatment	Water-cooled condenser specifications	規格対応 (Standard compliant)	※For other special specifications please contact our sales representatives.



Model	Series C specifications					Series CL specifications		
	C300	C750	C1500	C2200	C3800	CL300	CL750	CL1100
Effective cooling capacity (50/60Hz) [W] ※1	0~2000	0~4000	0~6000	0~8000	12200/14650	1160/1390	2800/2900	4000/4500
Nominal chiller capacity [W]	500	750	1500	2200	3750	300	750	1100
Refrigerant used	R-407C					R-407C		
Refrigerant capacity [g]	440	630	740	1200	4300	400	580	840
Solution-sending pump type	Flow rate (50/60Hz) [L/min]	12/14.4	24/28.8	30/36	39/46.8	58.5/70.2	12/14.4	24.6/29.5
	Total relief pressure [MPa]	0.5				0.3	0.5	
Power source	AC200V 50/60Hz, AC220V 60Hz 3Ph					AC200V 50/60Hz, AC220V 60Hz 3Ph		
Maximum operating current [A]	6	11	14	22	35	5	9	12
	Nominal operating current [A]	5	8	11	19	-	-	-
Temperature setting range	Follow-up type ...reference temperature -9.9~9.9°C					Follow-up type ...reference temperature -9.9~9.9°C		
	Constant type ...5~45°C					Constant type ...5~45°C		
Range of ambient temperature [°C]	5~45					5~45		
Range of liquid temperature [°C]	5~45					5~45		
Fluid to use	Mineral operation oil, lubricant oil, heat medium oil, etc.					Mineral operation oil, lubricant oil, heat medium oil, etc.		
Tank capacity [L] ※2	12	18	29	42	92	12	18	23
Heating capacity (kW) ※3	0.5	1	2	3	4	0.5	1	2
(without tank) Weight [kg]	60	75	95	135	295	60	75	80
(with tank) Weight [kg]	80	90	115	160	360	75	90	100

※1 Effective cooling capacity indicates maximum values within range of use when oil ISO VG2 or equivalent is used.  
 ※2 Only for specifications with tank.  
 ※3 Only for specifications with heater.  
 ※ Specifications may be improved and are subject to change without notice.

Size list		A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U
C300 CL300	without tank			675	Rc1/2			75		105	220		340	30	520			370	410	φ10		-
	with tank	350	450					76.5	105	150	420	300	338	-	720			320	440	φ12		200
C750 CL750	without tank			825	Rc3/4 Rc1/2			75		110	220		340	30	670			370	410	φ10	2-M10	-
	with tank							76.5		225	495		338	-	945			320	440	φ12	Eye bolt	275
CL1100	without tank	400	470	880	Rc3/8			100	130	110	220		350	388	30	730	100	65	390	430	φ10	
	with tank							102		225	493			-	1005			340	460	φ12		275
C1500	without tank	410	550	925	Rc3/4			85	135	130	240		400	30	770			470	510	φ10	2-M12	-
	with tank							107		225	517		360	398	-	1045			420	540	φ12	Eye bolt
C2200	without tank	520	620	1015	Rc1 1/4 Rc1			115	185	130	270	475	515	30	860			522	561	φ10	2-M16	-
	with tank							162		200	525	470	508	-	1110			490	610	φ18	Eye bolt	250
C3800	without tank	734	785	1506	Rc1/2			165	242	194	260	684	730	40	1276	180	80	694	724	φ14	4-M16	-
	with tank							267		220	532	688	728	-	1548			620	780		Eye bolt	272