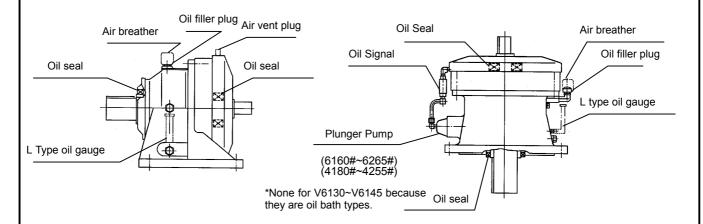
CYCLO DRIVE	Specification
Low and High Temperature Specifications	C-6066
Low and riight remperature opecinications	1/3

Allowable ambient temperature of standard Cyclo Drive is –20 to 40°C with few exceptional models (Note 2). Therefore, when using the machine in conditions exceeding this temperature, Cyclo should be modified for high or low temperature by making alteration to parts materials, lubricators used, etc. (plus, note that there are cases necessary to limit operation hours and load size). Moreover, when Cyclo is temporarily passing through the adverse temperature condition for export, no such consideration is necessary.



CHH6130~CHH6275 CHH4130~CHH4275 CVV6130~CVV6265 CVV4130~CVV4265

		Low temperature specification	Standards —			High temperature specifications (Note 2)							
Ambient	-50 - -	(Note 1) 40 –30 –20) –10	0 -	10 20	30	40	50	60	70	80	90	100
Temperature °C	-50 -4	40 –30 –20	-10		10 20	30	40	50			80	90	
Oil seal			Refer to other table.										
Eccentric body 6060**-6195** 4075**-4195**			F	Retainer m	aterial (Nyl	on or gun	metal)						
shaft 6205**_6275** bearing 4205**~4275**			F	Retainer ma	aterial (Gun	metal)							
Oil gauge		L Type glass oil gauge (Copper pipe protection)	Vinyl chl	oride resin	oil gauge (standard)			e glass Oil Gauge per pipe protection)				
Air vent valve	Unavailable	Polyethylene air vent valve (Standard) Air breather attached to filler opening and blind plug used for air vent valve						Unavailable					
Oil filler plug	able	Polyethylene air vent valve (standard) Air breather					able						
Fan		Polypropylene fan (Standard 6160*~6195*, 4160*~4195*) *6060*~614H*, 4075*~4155* are without fan AL fan (Standard 6205 and above, 4205 and above)											
Oil signal		Polycarbonate oil signal (standard) Polycarbonate oil signal (standard) Polycarbonate oil signal (standard) Polycarbonate oil signal											
Pressure gauge for trochoid pump (Note 2)		Discuss individually Standard trochoid pump Heat resistant type oil gauge											
Trochoid pump (Note 2)		Discuss individually Standard trochoid pump Discuss individually											
January 7	, 2002	•	 Sumito	mo Hea	avy Indu	stries	Ltd.						

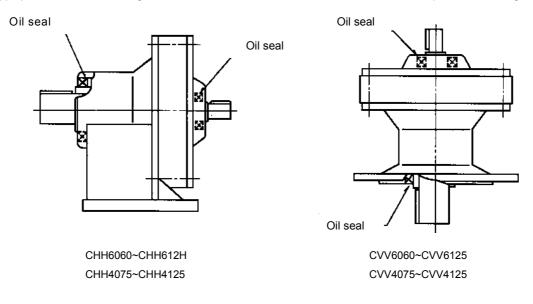
CYCLO DRIVE	Specification
Low and High Temperature Specifications	C-6066
Low and riight remperature opecinications	2/3

"Three-sheet" packing	Standard "three-sheet" packing (-40°C~100°C)				
Seal washer	Nitrile rubber seal washer				
Nylon spacer ring	6100 [#] ~614H [#] S 4105 [#] ~4155 [#] }	Standard nylon 46 (6160#~6275# Standard FC) (4160#~4275#			
Outer cover 4075**-4085**		H Outer cover and frame F outer covers are FC.) H outer cover FCD Frame FC			
and 610H [#] ~6275 [#] frame 4095 [#] ~4275 [#]	FC	FCD 45 (Special)			
Shaft bearing	Beware of decrease in basic load rating of shaft bearing in high temperature range.				
Lubrication oil and grease (Note 3)	Choose appropriate lubrication oil or grease for ambient temperature and usage condition.				

⁽Note 1) There may be some limitations in operation hours and load size.

(Note 2) Allowable range for forced lubrication type by trochoid pump (CW, CVVM-6275, 4270, and 4275) is $-5\sim40^{\circ}$ C because of its use of standard pressure gauge (-5 $\sim40^{\circ}$ C) and trochoid pump (-10 $\sim40^{\circ}$ C).

(Note 3) Appropriate lubrication oil and grease should be determined in coordination with ambient temperature and usage condition.



January 7, 2002

CYCLO DRIVE	Specification
Low and High Temperature Specifications	C-6066
Low and riight remperature opecinications	3/3

Standard of High and Low Temperature Specification of Oil Seal (Cyclo, Variable Speed Cyclo, and Beier)

		Cyclo Unit, variable	clo Unit, variable speed Cyclo, motor for direct connection				
Ambient temperature		Grease lubrication type	Oil lubrication type				
		6060#~612H# 4075#~4125#	6130#~614H# 4130#~4155#	6160# and above 4160# and above	Beier		
	90 — Unavailable						
High- temperature specification	80 — 70 — 60 — 50 _	Acrylic rubber	Acrylic rubber	Acrylic rubber			
э _Ө	40 _				Silicone Rubber		
Standard	30 20 10 0 -10 -20	Nitrile rubber	Nitrile rubber	Nitrile rubber	Nitrile rubber		
Low-temp specification	-30 — -40 — -50	Silicone Rubber	Silicone Rubber	Silicone Rubber	Silicone Rubber		
	_						

Note 1) Above document is for low and high temperature specification standard regarding oil seal.

Note 2) In high temperature range, silicone rubber oil seal is not applicable because swelling will be caused by extreme-pressure additive in lubricating oil or grease.

However, there is no problem for application of straight oil.

January 7, 2002

Sumitomo Heavy Industries, Ltd.