

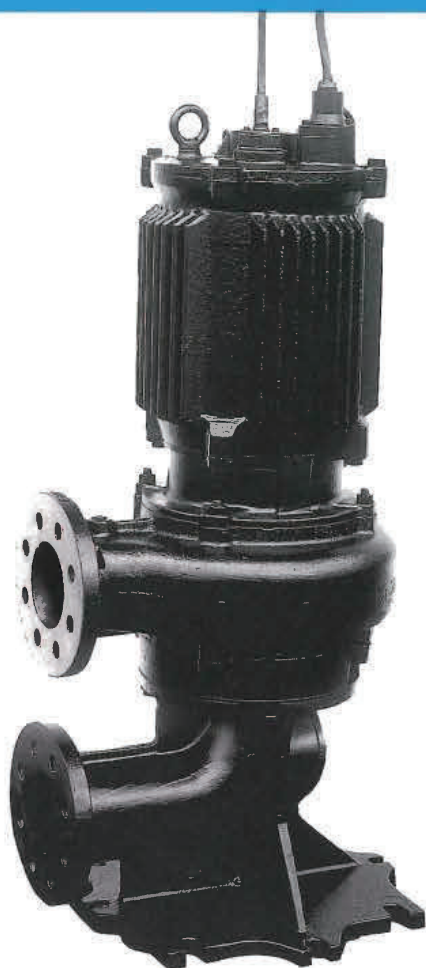
ShinMaywa

Dry Pit Submersible Pump

(Amphibian Type) CWT·CNT Series

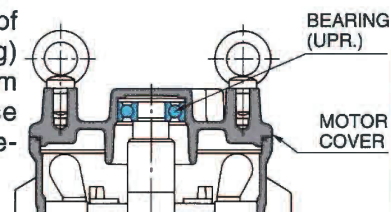


Employing newly developed air-cooled type submersible motor



●Improved life time of bearing and seal components

To prevent overheat, upper bearing is installed at upper side of motor cover. (Patent pending)
Also by reducing heat effect from motor, degradations of grease and O-ring are remarkably reduced.



●Employing newly developed air-cooled type submersible motor

By employing non-water jacket type air-cooled motor, this pump can be used even for sludge containing water. Also by reducing heat effect, continuous dry operation with class E insulation can be realized.

●Submersible application is also possible

By employing submersible motor, CWT, CNT series can be operated even though they are submerged.

●Employing high-quality 4 faces SiC Mechanical-Seal

This pump has wear-proof double mechanical seal, which realizes high reliability and long-life.

■Main specifications

Applicable condition	Ambient temperature		-20 to 40℃
	Ambient humidity		0 to 100%
	Ambient Fluid type		Waste water, Sewage, Sludge
	Liquid temperature		0 to 60℃(0 to 40℃:CNT150B)
Materials	Motor shaft		SUS420J2
	Pump casing		FC250(FC200:CNT150B)
	Impeller	CWT	FC250(15kW or less)
			FCD500(22kW)
		CNT	FC200(7.5kW or less, CNT150B)
			FC250(11kW or more)
		FCD500(22kW)	
Structure	Impeller	CWT	Screw type
		CNT	Non-clogging type
	Shaft seal	Double mechanical seal	
		4-faces SiC	
		CNT150B	LWR:2-faces Cemented carbide
	UPR:Carbon/Cemented carbide		
Motor	Name		Submersible induction motor
	Insulation class		E(F:CNT150B)
	Phase		3-phase
	Starting Method		Direct on line(over 11kW:Star-Delta)

■Applications

*For transfer and discharge of sewage and sludge at waste water treatment plants, etc.

*For relaying sewage at the junctions in the sewage work.

*For use in waste water treatment processes at combination treatment plants, etc.

*For discharging various industrial waste water.

■Options

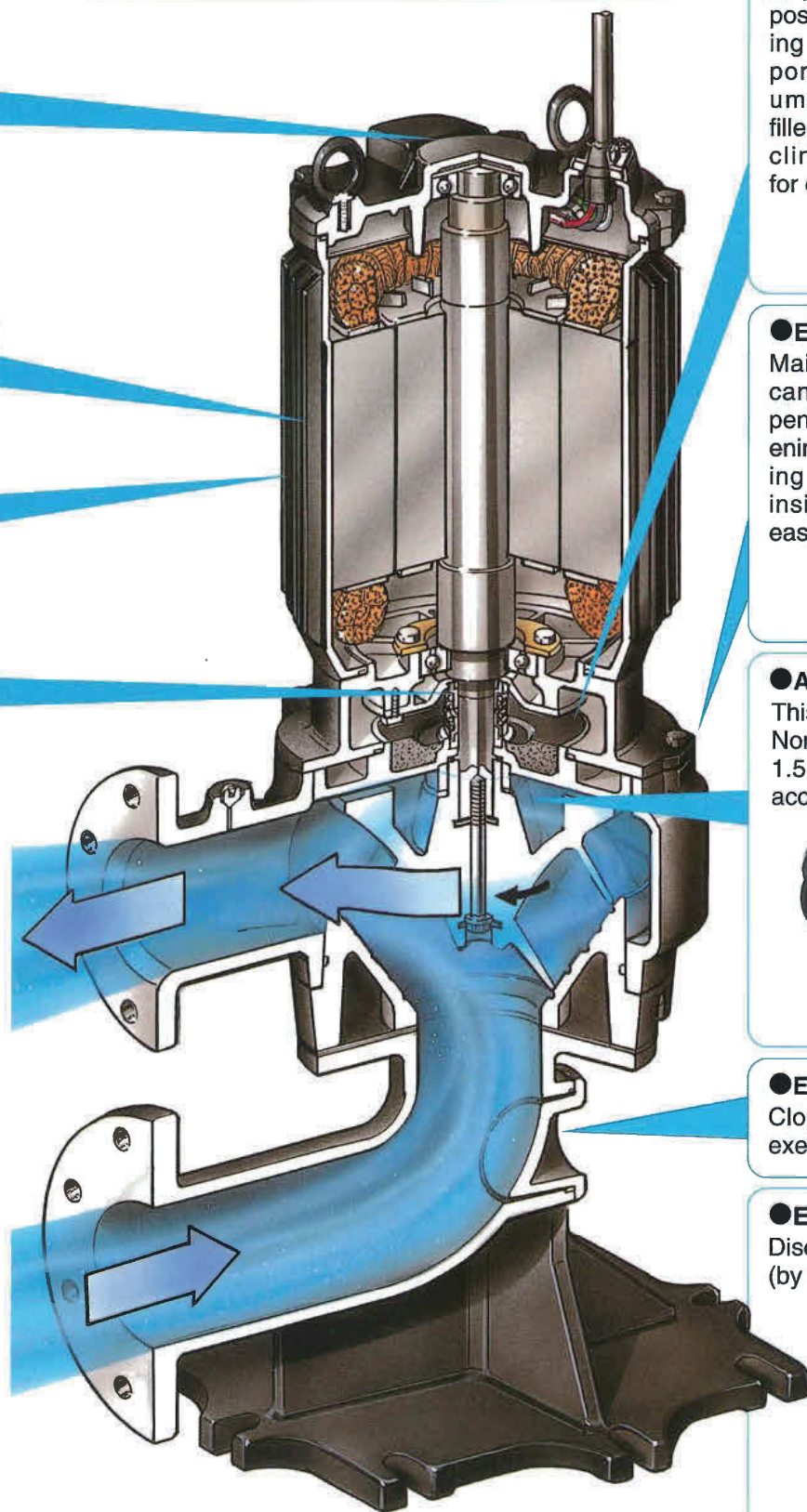
Cable extension	15, 20m
Material change	Impeller : SCS13 or High-chrome alloyed iron casting Base Cover : SCS13
Protector	Moisture Detector

For custom specifications other than the above, please consult with us

DRY PIT SUBMERSIBLE PUMP (AMPHIBIAN TYPE)

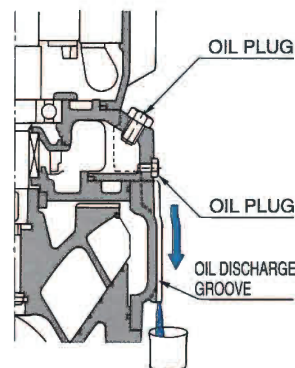
CWT · CNT series

OUTPUT: 1.5~22kW



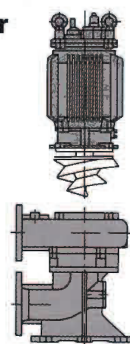
● Easy oil change

Oil discharge can be fully done at vertical position. By full pouring of oil at pouring port, adequate volume of oil can be filled. No need to inclining pump body for oil change.



● Easy maintenance for impeller

Maintenance of impeller can be executed by suspending pump after loosening 4 places of tightening nuts. Also, cleaning inside of casing can be easily done.



● Abundant series for various application

This pump offers Screw type impeller (CWT) or Non-clogging type impeller. Output variation is 1.5 to 22kW. Suitable model can be selected according to application.



(CWT)



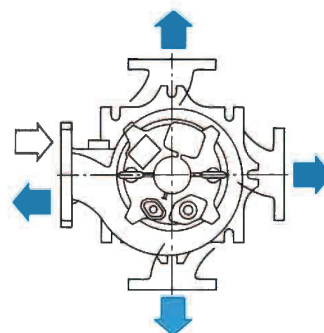
(CNT)

● Easy debris removal inside of suction pipe

Clogged debris inside of suction pipe can be executed from inspection port.

● Easy selection of discharge direction

Discharge direction can be selected 4 direction (by 90°).



Screw action is particularly powerful for sludge transfer.

Screw type

CWT Series



Standard specifications

Discharge bore mm	Intake bore mm	Model	Output kW	Phase	Capacity - Total head m ³ /min-m		Poles P	Weight kg
					50Hz	60Hz		
65	80	CWT65	1.5	Three	0.65 - 7.3	0.57 - 8.9	4	130
80	100	CWT80	2.2	Three	0.79 - 8.3	0.75 - 9.6	4	205
			3.7		1.11 - 11.4	1.10 - 11.7		230
100	125	CWT100	5.5	Three	1.40 - 13.4	1.36 - 14.4	4	275
			7.5		1.70 - 15.0	1.50 - 17.2		300
150	200	CWT150	11	Three	3.0 - 11.5	2.9 - 12.3	4	550
			15		3.7 - 14.0	3.3 - 14.3		610
			22		4.0 - 16.9	3.7 - 18.1		680

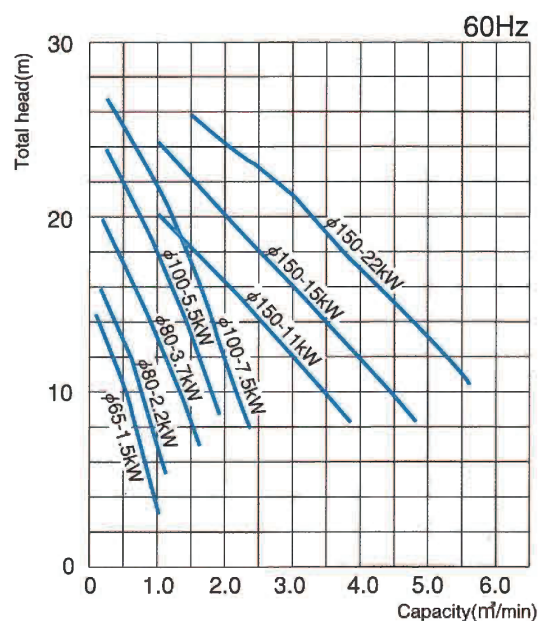
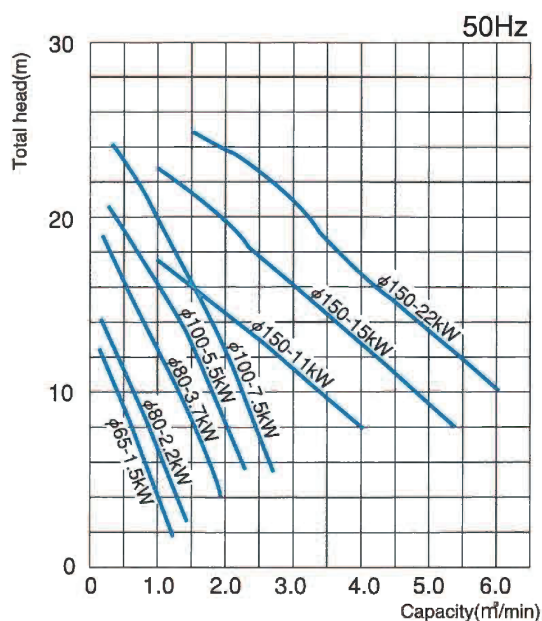
Standard accessorise

- Cable (8m) under 7.5kW 2pcs.
over 11kW 3pcs.
- Stand (Suction Pipe) 1pc.

Cable specifications

For power supply	1.5-2.2kW	VCT	1.25mm ²	4-cores	φ 11.5
	3.7kW	VCT	2.0mm ²	4-cores	φ 12.0
	5.5kW	VCT	3.5mm ²	4-cores	φ 14.0
	7.5kW	VCT	5.5mm ²	4-cores	φ 16.5
	11kW	(2PNCT	5.5mm ²	4-cores	φ 17.0)
		(2PNCT	5.5mm ²	3-cores	φ 15.5)
	15kW	(2PNCT	8.0mm ²	4-cores	φ 18.5)
		(2PNCT	8.0mm ²	3-cores	φ 17.0)
	22kW	(2PNCT	14.0mm ²	4-cores	φ 22.0)
		(2PNCT	14.0mm ²	3-cores	φ 20.0)
For protector		2PNCT	1.25mm ²	2-cores	φ 9.8

Performance curves



Performs extremely well with sewage, sludge and soil containing foreign matter of fixed shape.

Non-clogging type

CNT Series



Standard specifications

Discharge Bore mm	Intake Bore mm	Model	Output kW		Phase	Capacity-Total head m³/min-m		Poles P	Weight kg
			50Hz	60Hz		50Hz	60Hz		
65	80	CNT651	1.5	1.5	Three	0.75 — 6.5	0.65 — 7.0	4	130
80	100	CNT801	2.2	2.2	Three	0.90 — 6.7	0.84 — 7.1	4	205
			3.7	3.7		1.18 — 10.1	1.14 — 9.9		230
100	125	CNT1001	5.5	5.5	Three	1.50 — 11.6	1.49 — 11.6	4	275
			7.5	7.5		1.79 — 14.0	1.70 — 14.5		300
150	200	CNT1501	11	11	Three	2.5 — 15.0	2.5 — 15.2	4	550
			15	15		2.9 — 17.0	2.9 — 16.8		610
			22	22		3.5 — 21.2	3.4 — 22.7		680
	150	CNT150B	6	6.5		[40] 2.5 — 6.0	[10] 2.8 — 6.8	6	230
						[30] 2.5 — 7.7	[40] 2.8 — 8.8		
						[20] 2.5 — 11.0	[15] 2.8 — 11.8		
						[10] 2.5 — 13.5	[20] 2.8 — 15.0	4	
							[80] 1.8 — 22.8		

[] A value within parentheses indicates an impeller number.

Standard accessories (for CNT651~CNT1501)

- Cable (8m) under 7.5kW 2pcs.
over 11kW 3pcs.
- Stand (Suction Pipe) 1pc.

(for CNT150B)

- Cable (16m · 6/6.5kW) 1pcs.
(16m · 11/13kW) 2pcs.
- Stand 1pc.
- Suction Pipe 1pc.

Cable specifications (for CNT651~CNT1501)

For power supply

1.5~2.2kW	VCT	1.25mm	4-cores	φ11.5
3.7kW	VCT	2.0mm	4-cores	φ12.0
5.5kW	VCT	3.5mm	4-cores	φ14.0
7.5kW	VCT	5.5mm	4-cores	φ16.5
11kW	(2PNCT)	5.5mm	4-cores	φ17.0
	(2PNCT)	5.5mm	3-cores	φ15.5

For protector

2PNCT	1.25mm	2-cores	φ9.8
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15kW	(2PNCT)	8.0mm	4-cores	φ18.5
	(2PNCT)	8.0mm	3-cores	φ17.0
22kW	(2PNCT)	14.0mm	4-cores	φ22.0
	(2PNCT)	14.0mm	3-cores	φ20.0

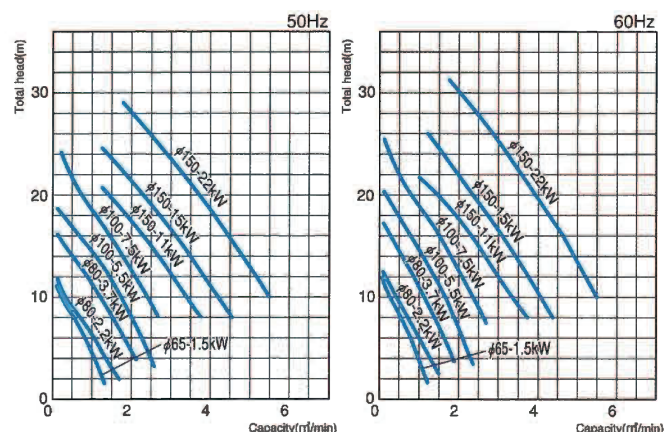
(for CNT150B)

For power supply

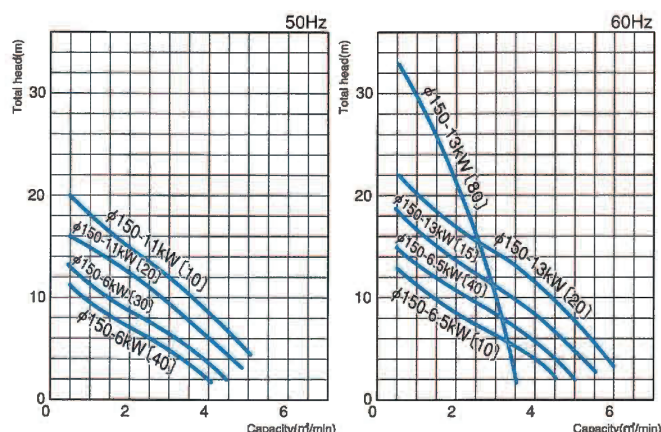
2PNCT	8.0mm	4-cores	φ18.5
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Performance curves

CNT651~CNT1501



CNT150B

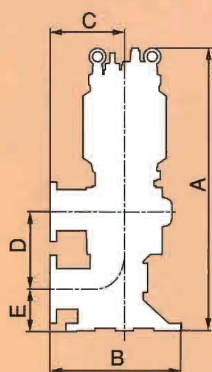


[] A value within parentheses indicates an impeller number.

Dimension

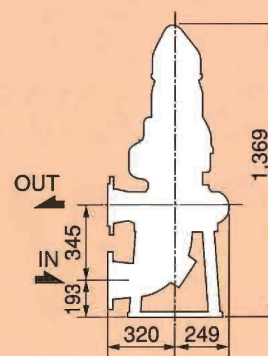
Unit: mm

CWT Series
CNT651~CNT1501



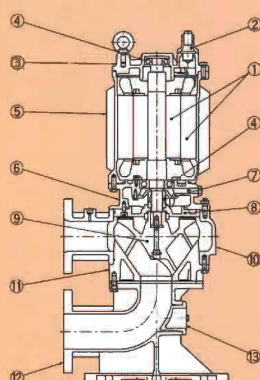
Model	Output kW	A	B	C	D	E
CWT65	1.5	865	354	210	273	130
CNT651						
CWT80	2.2	920	470	265	170	145
CNT801	3.7	995				
CWT100	5.5	1,050	550	320	345	193
CNT1001	7.5	1,110				
CWT150	11	1,340	570	320	345	193
CNT1501	15	1,450				
	22	1,550				

CNT150B



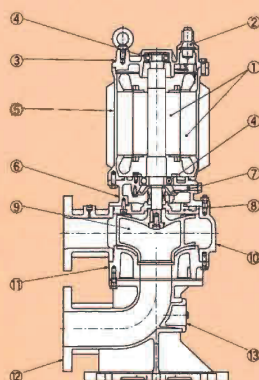
Sectional View

CWT801



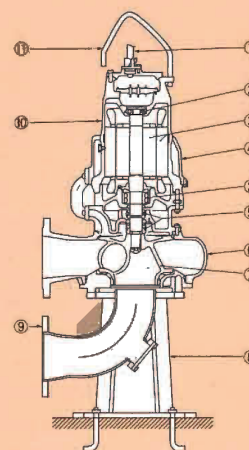
No.	Parts Name	Material
1	Motor	—
2	Cable	VCT
3	Cable Cover	FC200
4	Ball Bearing	—
5	Stator Casing	FC200
6	Oil Casing	FC200
7	Mechanical Seal	SiC/SiC
8	Mech.Seal.Br.	FC250
9	Impeller	FC250
10	Pump Casing	FC250
11	Base Cover	FC250
12	Stand	FC200
13	Ins.Hole Cover	FC200

CNT801



No.	Parts Name	Material
1	Motor	—
2	Cable	VCT
3	Cable Cover	FC200
4	Ball Bearing	—
5	Stator Casing	FC200
6	Oil Casing	FC200
7	Mechanical Seal	SiC/SiC
8	Mech.Seal.Br.	FC200
9	Impeller	FC200
10	Pump Casing	FC250
11	Base Cover	FC250
12	Stand	FC200
13	Ins.Hole Cover	FC200

CNT150B



No.	Parts Name	Material
1	Cable	2PNCT
2	Ball Bearing	—
3	Motor	—
4	Outer Casing	FC200
5	Mechanical Seal	—
6	Pump Casing	FC200
7	Impeller	FC200
8	Stand	SS400
9	Suction Pipe	SS400
10	Stator Casing	FC200
11	Handle	SS400

Specifications and dimensions are subject to change without notice.

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