

Available executions

Execution No.	Material ID	Attribute 1: HT_static-pressure	
		Buffer unit	Exp. tank
001	PAAD362620		X
002	PAAD362621	X	

NOTE

The above executions can be configured using the Engine Configurator. Detailed guidance for the executions is provided within the Marine Installation Manual (MIM). If a specific execution of interest is not shown in the above table, then it may still be under development or not available. For further information or in case of a project-specific request, WinGD must be contacted directly.

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Prod.	X62-S2.0													
Change History														
	-	sna102	mhu019	03.05.2024	CNAA005716	New MainDesign introduced for ...				-	-			
	Rev.	Creator	Approver	Approval Date	Change ID	Change Synopsis				Approved	Activity Code	E	C	
WIN GD Winterthur Gas & Diesel					CENTRAL COOLING WATER SYSTEM									
					MIDS master drawing									
separate BOM available					Dimension									
Scale -				Units [mm] [kg]		Basic Material				Net Weight 0.001				
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					Qty per		A4		Item ID		PTAA026095		Drawing Page/s	

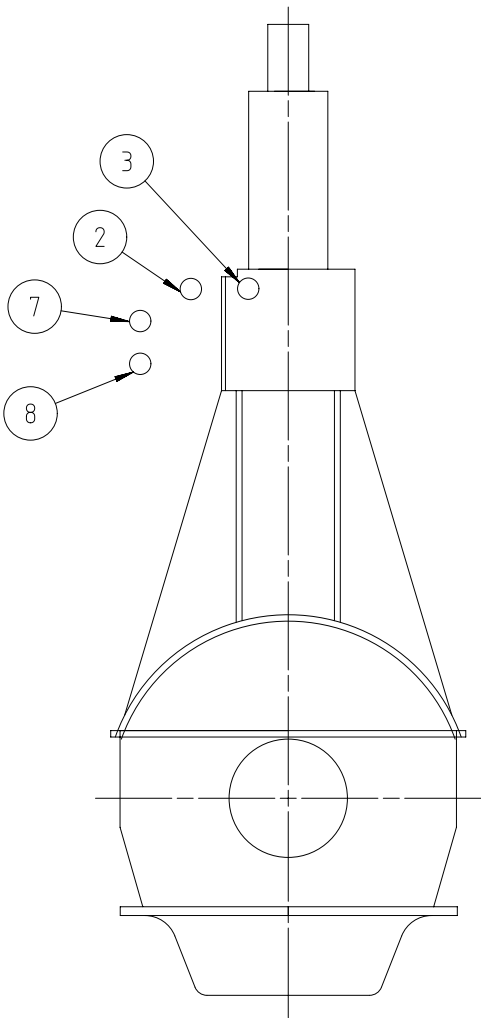
SPECIFICATION which must be met at the engine interface connections

8 OUTLET - Scavenge air cooler cooling water (LT water)
- CW volume flow: according to GTD specification,
adjusted by an orifice in the outlet pipe on shipside

2 INLET - Cylinder cooling water (HT water)
- CCW supply pressure: 2.0 - 4.0 bar
- CCW volume flow: according to GTD specification
- CCW treatment: freshwater must be treated according to WinGD specification
- CCW static pressure: the static pressure must be adjusted with installation of an expansion tank
- The expansion tank must be installed at a height of min. 12 m ("Hmin-HT" in the "Installation Drawing") in relation to the CS centerline
- Pre-heating: the engine must be warmed-up with heated HT water to min. 60 °C before the engine start

3 OUTLET - Cylinder cooling water (HT water)
- CW temperature:
Controller set-point: 90 °C
Steady state condition: 90 ± 2 °C
Transient condition: 90 ± 4 °C

7 INLET - Scavenge air cooler cooling water (LT water)
- CW supply pressure: 2.0 - 4.0 bar
- CW temperature:
Controller set-point: 10 - 36 °C
- CW volume flow: according to GTD specification
- CW treatment: freshwater must be treated according to WinGD specification
- The cooling water must be supplied by pipes which are not internally galvanised, because the nitrites of the cooling water treatment attack zinc lining of galvanised pipes and create sludge
- CW static pressure: the static pressure must be adjusted by the installation of an expansion tank
- The expansion tank must be installed at a height of min. 12 m ("Hmin-LT" in the "Installation Drawing") in relation to the CS centerline



Used abbreviations:
CW: Cooling Water
CCW: Cylinder Cooling Water
CS: Crank Shaft
Cap. : Capacity
HT: High Temperature
LT: Low Temperature
SAC: Scavenge Air Cooler

SURFACE PROTECTION SEE GROUP 0344
TOLERANCING PRINCIPLE ISO8015
GENERAL TOLERANCES ACCORDING TO ISO2768-mK

Prod.	X62-S2.0													
Change History														
	A	npa101	mhu019	16.02.2024	CNA004298	Drawing Updated						4	3	
	-	sde101	mhu019	26.02.2021	EAAD787123	-						-	-	
	Rev.	Creator	Approver	Approval Date	Change ID	Change Synopsis					Approved	Activity Code	E	C
WINGD Winterthur Gas & Diesel					CENTRAL COOLING WATER SYSTEM SPECIFICATION									
separate BOM available					Dimension					SPECIFICATION				
Scale	-		NX	Units [mm] [kg]		Basic Material				Net Weight 0.000				
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					Qty per		A3		Item ID		PAAD362616		Drawing Page/s	

SEQ NO	QTY	Item ID	Item Name Dimension	Standard-ID	Basic Material	Net Weight
015	1	107.413.097.500	EXPANSION TANK			0.001
016	1	107.245.419.500	EXPANSION TANK			0.001

Prod.	X62-S2.0											
Change History												
	-	sjo101	mhu019	16.02.2024	CNAA004298	new Design			-	-		
	Rev.	Creator	Approver	Approval Date	Change ID	Change Synopsis	Approved	Activity Code	E	C		
WIN GD Winterthur Gas & Diesel					CENTRAL COOLING WATER SYSTEM DESIGN GUIDANCE VALUES							
Bill Of Material					Dimension DESIGN GUIDANCE VALUES							
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					Main Design		Design Group 9721		Q-Code X X M		Standard WDS	
					Qty per		A4 Item ID		PTAA081045		BOM Page/s 01/01	

All values in Table 1 below are based on an R1 rated engine. Based on the project-specific GTD data, layout optimisations are possible.

Number of cylinders			5	6	7	8
Pressure drop across the engine		(bar)	1.3			
Cooling water expansion tank (HT)	Cap.	(m³)	Depending on ancillary plants min. 10% of HT cooling water			
Cooling water expansion tank (LT)	Cap.	(m³)	Depending on ancillary plants min. 10% of LT cooling water			
PROPOSAL for pipe dimensioning *2)						
Nominal pipe diameter	A	DN	Yard determination, suitable for main engine and ancillary plants			
	B	DN				
	C	DN				
	D	DN	150	150	150	200
	E	DN	100	125	125	125
	G	DN	125	125	125	150
	H	DN	50	50	50	50
J	DN	50	50	50	50	

Cylinder	HT circuit CCW Volume (l)	LT circuit SAC CW Volume (l)
5	600 l	475 l a)
6	700 l	475 l a) / 1100 l b)
7	825 l	475 l a) / 1200 l b)
8	950 l	500 l a) / 1300 l b)

b) Values for executions with 2 SAC.

*2) Guidance regarding the pipe size selection, in relation to the project-specific flow rates in GTD, is given by the drawing FLUID VELOCITIES AND FLOW RATES, as included in the MDS "DG9730 Various Installation Items".

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TOLERANCING PRINCIPLE ISO8015		Qty per	A2	Item ID	PTAA081045			Drawing Page/s	1/1
GENERAL TOLERANCES ACCORDING TO ISO2768-mK									

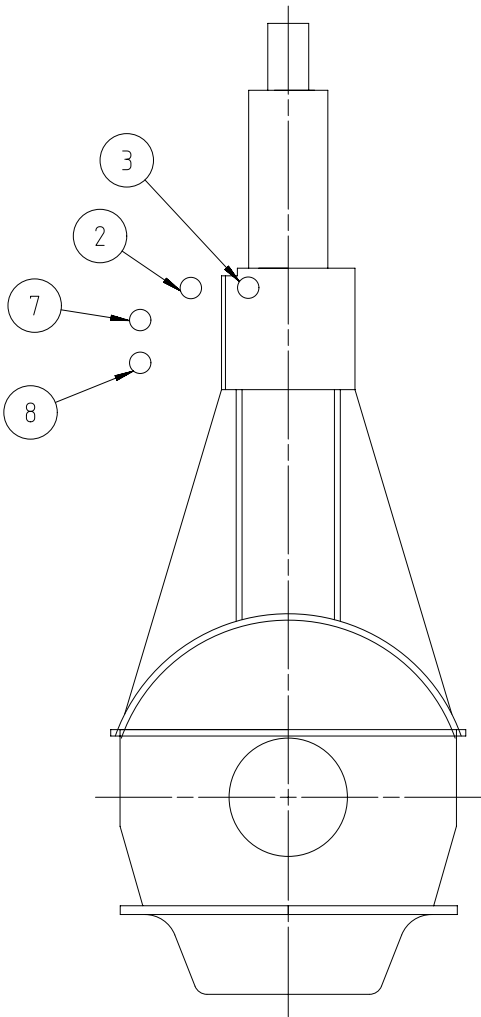
SPECIFICATION which must be met at the engine interface connections

8 OUTLET - Scavenge air cooler cooling water (LT water)
- CW volume flow: according to GTD specification,
adjusted by an orifice in the outlet pipe on shipside

2 INLET - Cylinder cooling water (HT water)
- CCW supply pressure: 2.0 - 4.0 bar
- CCW volume flow: according to GTD specification
- CCW treatment: freshwater must be treated according to WinGD specification
- CCW static pressure: the static pressure must be adjusted with installation of an expansion tank
- The expansion tank must be installed at a height of min. 12 m ("Hmin-HT" in the "Installation Drawing") in relation to the CS centerline
- Pre-heating: the engine must be warmed-up with heated HT water to min. 60 °C before the engine start

3 OUTLET - Cylinder cooling water (HT water)
- CW temperature:
Controller set-point: 90 °C
Steady state condition: 90 ± 2 °C
Transient condition: 90 ± 4 °C

7 INLET - Scavenge air cooler cooling water (LT water)
- CW supply pressure: 2.0 - 4.0 bar
- CW temperature:
Controller set-point: 10 - 36 °C
- CW volume flow: according to GTD specification
- CW treatment: freshwater must be treated according to WinGD specification
- The cooling water must be supplied by pipes which are not internally galvanised, because the nitrites of the cooling water treatment attack zinc lining of galvanised pipes and create sludge
- CW static pressure: the static pressure must be adjusted by the installation of an expansion tank
- The expansion tank must be installed at a height of min. 12 m ("Hmin-LT" in the "Installation Drawing") in relation to the CS centerline



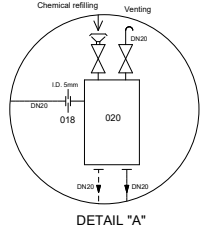
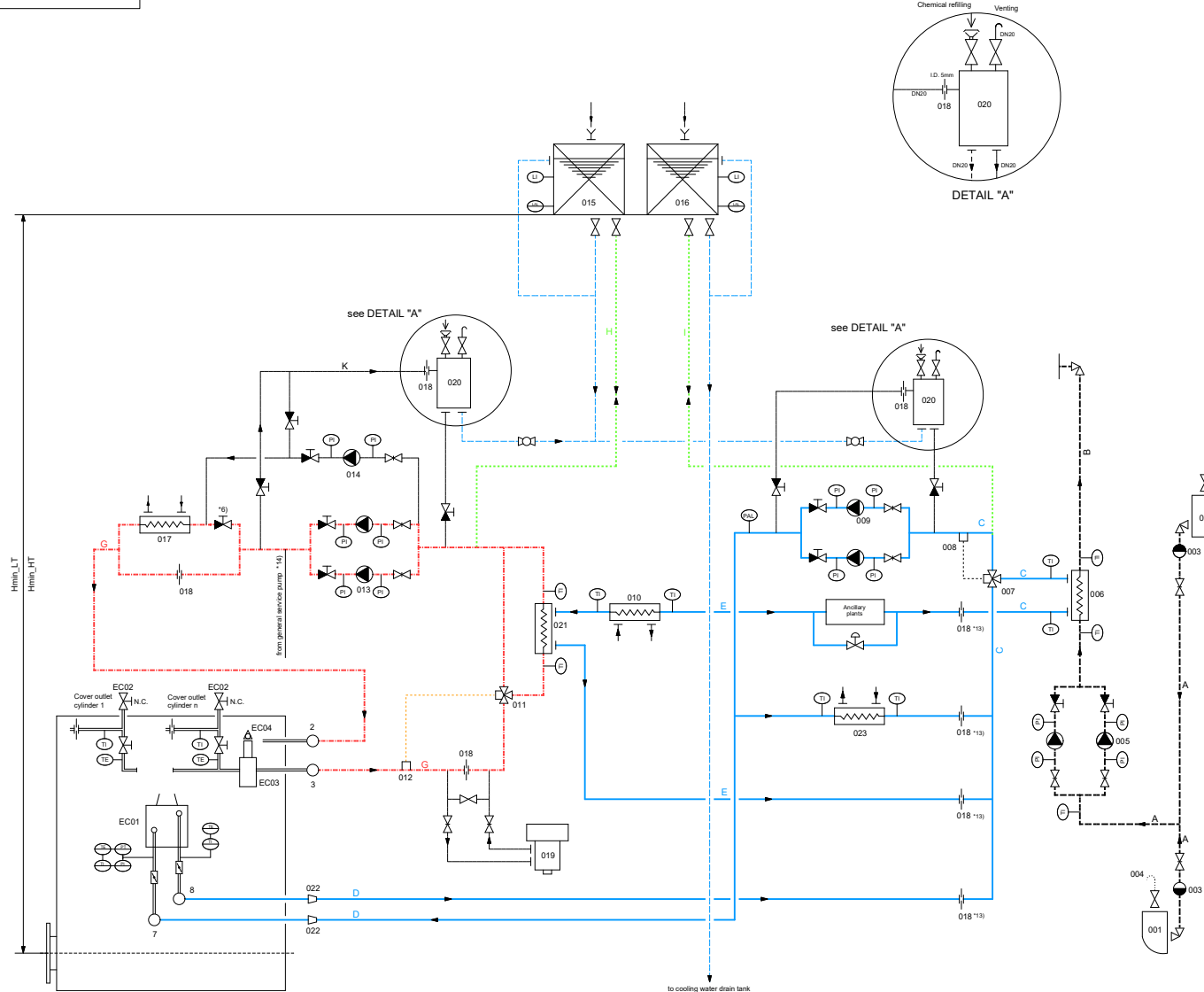
Used abbreviations:
CW: Cooling Water
CCW: Cylinder Cooling Water
CS: Crank Shaft
Cap. : Capacity
HT: High Temperature
LT: Low Temperature
SAC: Scavenge Air Cooler

SURFACE PROTECTION SEE GROUP 0344
TOLERANCING PRINCIPLE ISO8015
GENERAL TOLERANCES ACCORDING TO ISO2768-mK

Prod.	X62-S2.0											
Change History												
	A	npa101	mhu019	16.02.2024	CNA004298	Drawing Updated					4	3
	-	sde101	mhu019	26.02.2021	EAAD787123	-					-	-
	Rev.	Creator	Approver	Approval Date	Change ID	Change Synopsis					Approved	Activity Code
											E	C
					CENTRAL COOLING WATER SYSTEM SPECIFICATION							
separate BOM available					SPECIFICATION							
Scale		-		NX	Units [mm] [kg]		Basic Material				Net Weight	
											0.000	
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					Qty per		A3		Item ID		PAAD362616	
											Standard WDS	
											Drawing Page/s	
											1/1	

SYSTEM PROPOSAL

Further installation details and variants can be found in the Marine Installation Manual (MIM). Design guidance regarding pipe and tank sizes and information about the system volumes is given in the DESIGN GUIDANCE VALUE drawing. A list of the abbreviations used in this drawing set is provided in the SPECIFICATION drawing. The piping symbols are explained by the PIPING SYMBOL KEY, included in the MIDS "DG9730 - Various Installation Items".



Pos.	ENGINE COMPONENTS *3)
EC01	Scavenge air cooler (SAC)
EC02	Manual vent valve, for each cylinder *12)
EC03	Air separator
EC04	Automatic venting unit

Pos.	ENGINE CONNECTIONS *2)
2	INLET - Cylinder cooling water (HT water)
3	OUTLET - Cylinder cooling water (HT water)
7	INLET - Scavenge air cooler (SAC) cooling water (LT water) *7)
8	OUTLET - Scavenge air cooler (SAC) cooling water (LT water) *7)

Pos.	SYSTEM COMPONENTS *1)
001	Low sea chest
002	High sea chest
003	Seawater strainer
004	Air vent (air vent pipe or equal venting system acc. to the shipyard's design)
005	Seawater circulating pump
006	Central cooler (LT cooling water)
007	Automatic temperature control valve for LT circuit *10)
008	Temperature sensor of regulating system *10)
009	Cooling water pump for LT circuit
010	Lubricating oil cooler
011	Automatic temperature control valve for HT circuit *11)
012	Temperature sensor of regulating system *11)
013	Cylinder cooling water pump for HT circuit
014	Pre-heating circulating pump (optional), cap. 10% from cylinder cooling pump *8)
015	HT water expansion tank (detail drawing linked in the partlist (BOM))
016	LT water expansion tank (detail drawing linked in the partlist (BOM))
017	Pre-heater for main engine (HT circuit)
018	Throttling disc *5)
019	Freshwater generator
020	Chemical water treatment refi unit *4)
021	Cylinder cooling water cooler
022	Transition piece (adapter) *9)
023	MO/MGO cooler

Remarks:

- Air vent and drain pipes are not shown on the drawing. They must be installed where required.
- Air vent and drain pipes must be fully functional at all inclination angles of the ship at which the engine must be operational.

*1) To be installed by the shipyard.

*2) Refer to the "Pipe Connection Plan" for the execution and location of the engine pipe connection.

*3) To be delivered by the engine manufacturer, i.e. already equipped on the engine side.

*4) To be installed for cooling water after-treatment during regular engine operation. Appropriate dimensions are provided in view "A". Other designs are possible.

*5) When using a valve, lock the disc in proper position to avoid mishandling.

*6) Only when pos. 014 is installed.

*7) The inlet and outlet pipes to SAC must be designed to allow the engine thermal expansion or be fitted with expansion pieces.

*8) For guidance only, the final layout according to the engine pre-heating requirements.

*9) Installed as required (check the "Pipe Connection Plan").

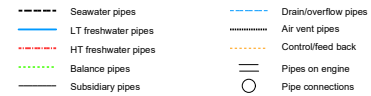
*10) A constant temperature at the engine inlet must be maintained. Temperature set-point can be selected between 10 °C - 36 °C. WinGD recommends a set-point of 25 °C. A lower temperature of LT water assists the main engine to reach lower BSFC. If the auxiliary plants require a temperature lower or higher than the LT water set-point, a separate water supply system with a different temperature set-point must be installed (please refer to the system proposal in the MIM).

*11) A constant temperature at the engine outlet must be maintained. Required controller set-point for the main engine operation is 90 °C.

*12) Only to be used for manual venting of isolated cylinders after maintenance. To be kept closed during engine operation.

*13) Optional, only to be installed if needed for hydraulic balancing.

*14) Optional connection. To be installed if requested by class rules for emergency engine cooling.



X - engine				CENTRAL COOLING WATER SYSTEM			
COMOS				HT static press.: exp tank, air separator: on-engine			
side 101				DTAA001217			
16/12/2023				Drawing New			
16/12/2023				1/1			

SEQ NO	QTY	Item ID	Item Name	Dimension	Standard-ID	Basic Material	Net Weight
001	1	PAAD362619	CENTRAL COOLING WATER SYSTEM	SPECIFICATION			0.001
002	1	PTAA081050	CENTRAL COOLING WATER SYSTEM	DESIGN GUIDANCE VALUES			0.001
003	1	DTAA001215	CENTRAL COOLING WATER SYSTEM	PROPOSAL			
004	1	107.429.532	CONCEPT GUIDANCE				



Prod.	5,6,7,8 X62-S2.0							
Change History								
	B	sjo101	mhu019	30.04.2024	CNAA005715	Main Drawing updated	4	3
	A	sna102	mhu019	28.11.2022	CNAA002856	Main Design/Drawing Introduced	4	3
	-	sde101	mhu019	26.02.2021	EAAD787123	-	-	-
	Rev.	Creator	Approver	Approval Date	Change ID	Change Synopsis	Activity Code	E C



CENTRAL COOLING WATER SYSTEM

Bill Of Material		Dimension							
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	Main Design	Yes	Design Group		9721	Q-Code	X X M	Standard	WDS
	Qty per	Engine	A4	Item ID	PAAD362621		BOM Page/s	01/01	

SPECIFICATION which must be met at the engine interface connections

- 8
- OUTLET - Scavenge air cooler cooling water (LT water)
- CW volume flow: according to GTD specification, adjusted by an orifice in the outlet pipe on shipside

- 1
- INLET - Cylinder cooling water (HT water)
- CCW supply pressure: 2.0 - 4.0 bar

- CCW volume flow: according to GTD specification

- CCW treatment: freshwater must be treated according to WinGD specification

- CCW static pressure: a buffer unit must be installed. The static pressure must be adjusted by buffer unit pressure setting

- Pre-heating: the engine must be warmed-up with heated HT water to min. 60 °C before the engine start

- 3
- OUTLET - Cylinder cooling water (HT water)
- CW temperature:
Controller set-point: 90 °C
Steady state condition: 90 ± 2 °C
Transient condition: 90 ± 4 °C

- 7
- INLET - Scavenge air cooler cooling water (LT water)
- CW supply pressure: 2.0 - 4.0 bar

- CW temperature:
Controller set-point: 10 - 36 °C

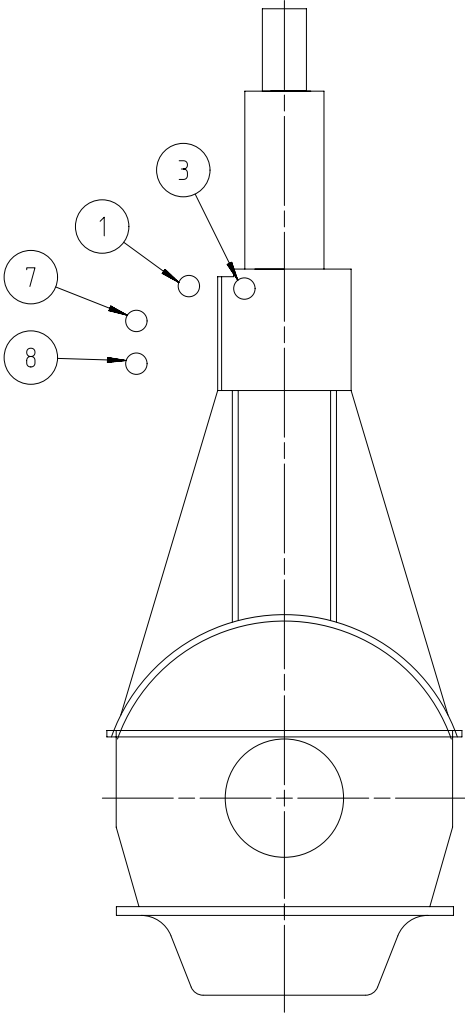
- CW volume flow: according to GTD specification

- CW treatment: freshwater must be treated according to WinGD specification

- The cooling water must be supplied by pipes which are not internally galvanised because the nitrites of the cooling water treatment attack zinc lining of galvanised pipes and create sludge

- CW static pressure: the static pressure must be adjusted by the installation of an expansion tank

- The expansion tank must be installed at a height of min. 12 m ("Hmin_LT" in the "Installation Drawing") in relation to the CS centerline



Used abbreviations:
CW: Cooling Water
CCW: Cylinder Cooling Water
CS: Crank Shaft
Cap. : Capacity
HT: High Temperature
LT: Low Temperature
SAC: Scavenge Air Cooler

SURFACE PROTECTION SEE GROUP 0344
TOLERANCING PRINCIPLE ISO8015
GENERAL TOLERANCES ACCORDING TO ISO2768-mK

Prod.	X62-S2.0													
Change History														
	A	npa101	mhu019	16.02.2024	CNA004298	Drawing Updated						4	3	
	-	sde101	mhu019	26.02.2021	EAAD787123	-						-	-	
	Rev.	Creator	Approver	Approval Date	Change ID	Change Synopsis						Approved	Activity Code	E
 Winterthur Gas & Diesel					CENTRAL COOLING WATER SYSTEM SPECIFICATION									
separate BOM available					SPECIFICATION									
Scale		-		NX	Units [mm] [kg]		Basic Material				Net Weight			0.001
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					Qty per		A3		Item ID		PAAD362619		Drawing Page/s	

SEQ NO	QTY	Item ID	Item Name Dimension	Standard-ID	Basic Material	Net Weight
15	1	107.245.626.500	BUFFER			0.001
16	1	107.245.419.500	EXPANSION TANK			0.001

Prod.	X62-S2.0							
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Bill Of Material	Dimension							DESIGN GUIDANCE VALUES		
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	Main Design		Design Group		9721	Q-Code	X X M	Standard	WDS	
	Qty per		A4	Item ID	PTAA081050		BOM Page/s		01/01	

All values in Table 1 below are based on an R1 rated engine. Based on the project-specific GTD data, layout optimisations are possible.

Number of cylinders			5	6	7	8
Buffer unit for HT circuit	Cap.	(m³)	0.8	0.8	0.8	0.8
Cylinder cooling water feed tank only min.	Cap.	(m³)	1.5	1.5	1.5	1.5
CCW feed and drain tank (combined) min.	Cap.	(m³)	4	4	4	4
Cooling water expansion tank (LT)	Cap.	(m³)	Depending on ancillary plants min. 10% of LT cooling water			
PROPOSAL for pipe dimensioning *2)						
Nominal pipe diameter	A	DN	Yard determination, suitable for main engine and ancillary plants			
	B	DN				
	C	DN				
	D	DN	150	150	150	200
	E	DN	100	125	125	125
	G	DN	125	125	125	150
	H	DN	80	80	80	80
	I	DN	32	32	32	32
	J	DN	50	50	50	50

Cylinder	HT circuit CCW Volume (l)	LT circuit SAC CW Volume (l)
5	600 l	475 l a)
6	700 l	475 l a) / 1100 l b)
7	825 l	475 l a) / 1200 l b)
8	950 l	500 l a) / 1300 l b)

b) Values for executions with 2 SAC.

*2) Guidance regarding the pipe size selection, in relation to the project-specific flow rates in GTD, is given by the drawing FLUID VELOCITIES AND FLOW RATES, as included in the MDS "DG9730 Various Installation Items".

[illegible]

Further installation details and variants can be found in the Marine Installation Manual (MIM). Design guidance regarding pipe and tank sizes and information about the system volumes is given in the DESIGN GUIDANCE VALUE drawing. A list of the abbreviations used in this drawing set is provided in the SPECIFICATION drawing. The piping symbols are explained by the PIPING SYMBOL KEY, included in the MIDS "DG9730 - Various Installation Items".

Pos.	ENGINE CONNECTIONS *2)
1	INLET - Cylinder cooling water (HT water)
3	OUTLET - Cylinder cooling water (HT water)
7	INLET - Scavenge air cooler (SAC) cooling water (LT water) *7)
8	OUTLET - Scavenge air cooler (SAC) cooling water (LT water) *7)

Remarks:

- Air vent and drain pipes are not shown on the drawing. They must be installed where required.
- Air vent and drain pipes must be fully functional at all inclination angles of the ship which the engine must be operational.

*) To be installed by the shipyard.

*) Refer to the "Pipe Connection Plan" for the execution and location of the engine pipe connection.

*) To be delivered by the engine manufacturer, i.e. already equipped on the engine side.

*) To be installed for cooling water after-treatment during regular engine operation. Appropriate dimensions are provided in view "A". Other designs are possible.

*) When using a valve, lock the disc in proper position to avoid mishandling.

*) Only when pos. 014 is installed.

*) The inlet and outlet pipes to SAC must be designed to allow the engine thermal expansion or be fitted with expansion pieces.

*) For guidance only, the final layout according to the engine pre-heating requirements.

*) Installed as required (check the "Pipe Connection Plan").

*) Optional filling line to enable fast system refilling (e.g. after a complete system drainage) by means of the pre-heating pumps.

*) A constant temperature at the engine inlet must be maintained. Temperature set-point can be selected between 10 °C - 36 °C. WnG2 recommends a set-point of 25 °C. A lower temperature of LT water assists the main engine to reach lower BSFC. If the ancillary plants require a temperature lower or higher than the LT water set-point, a separate water supply system with a different temperature set-point must be installed (please refer to the system proposal in the MIM).

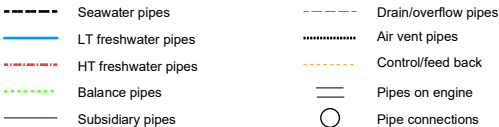
*) A constant temperature at the engine outlet must be maintained. Required controller set-point for the main engine operation is 90 °C.

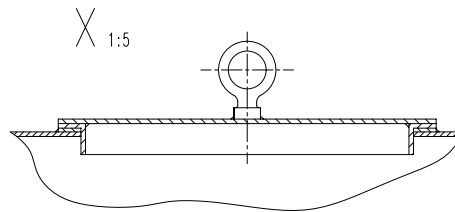
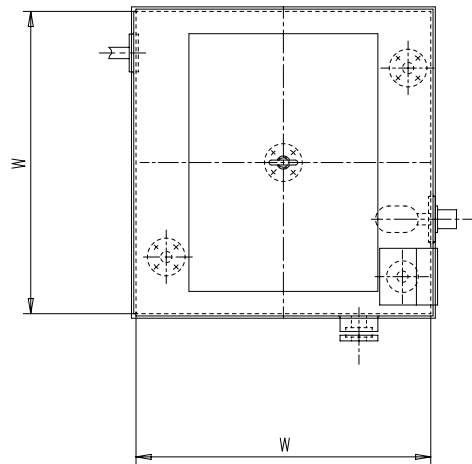
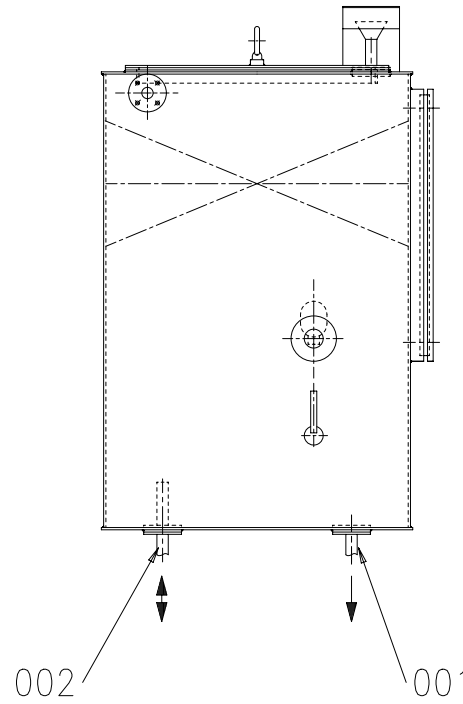
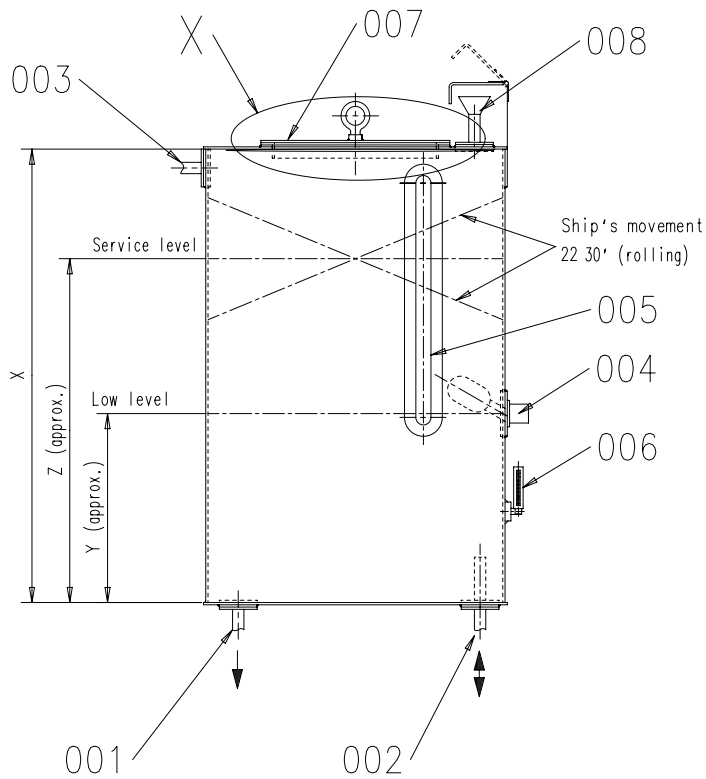
*) If the selected control air valve does not have the integrated air release functionality, a separate air release valve can be installed as an alternative on the top of the buffer unit.

*) Only to be used for manual venting of isolated cylinders after maintenance. To be kept closed during engine operation.

*) Optional, only to be installed if needed for hydraulic balancing.

*) If gas-driven auxiliaries are connected to the LT circuit, the LT expansion tank must be gas-tight and must be vented to a safe area outside the engine room.

[illegible]



drawing view shows dimensioning scale for 0.75 m³ capacity

Pos.	Description
001	Drain from HT circuit
002	Balance pipe from HT circuit
003	Overflow/air vent
004	Low level alarm
005	Level indicator *1)
006	Thermometer
007	Inspection cover *2)
008	Filling pipe/inlet chemical treatment *2)

Remarks:

*1) Level indicator can be omitted if an alternative is fitted.

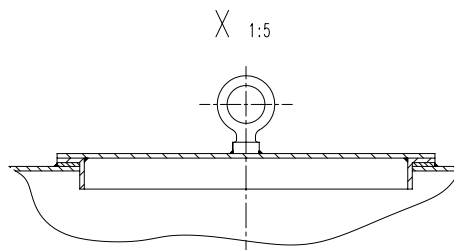
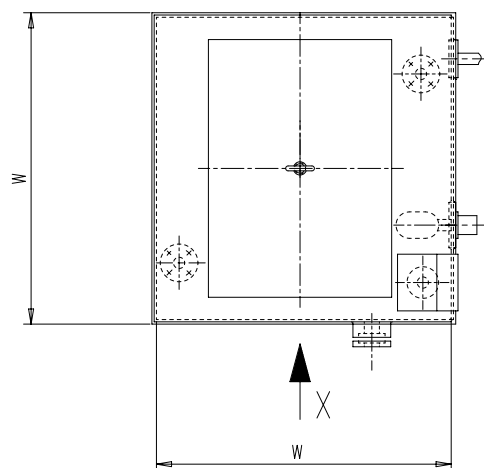
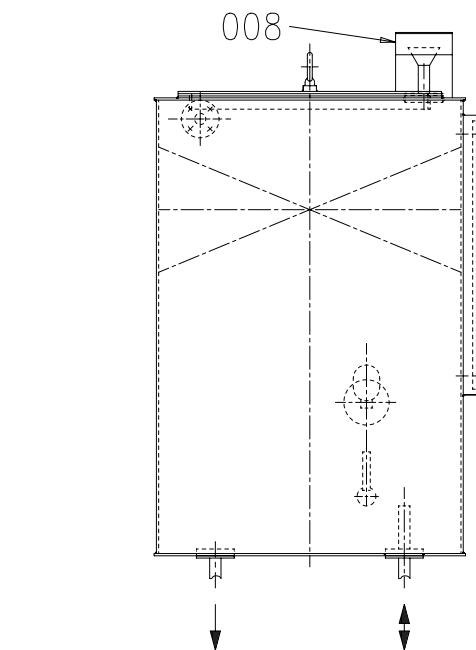
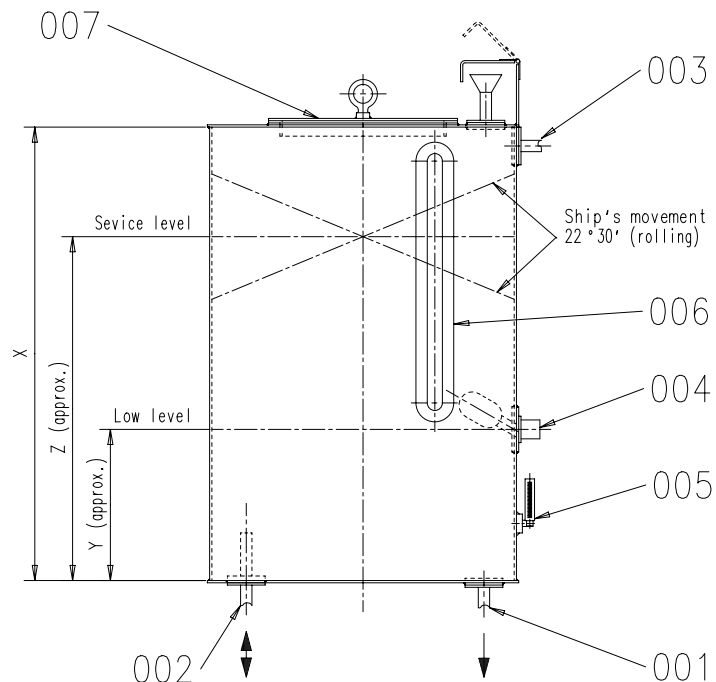
*2) Other designs like hinged covers, etc. are also possible

- Tank dimensions are defined by the Tank capacity, as seen in Table 1.
For capacity and pipe diameter, refer to drawing 'Central cooling water system'.

Table 1: Tank dimensions

HT Tank capacity	W	X	Y	Z
(m ³)	(mm)	(mm)	(mm)	(mm)
0.5	800	800	330	640
0.75	800	1200	500	960
1.0	800	1600	670	1280
1.25	1000	1250	530	1000
1.5	1000	1500	630	1200
1.75	1000	1750	730	1400
2.0	1000	2000	830	1600

Free space for lic.	Q-Code XXXXXX Standard ISO; JIS				Main Drw.								
Modif.	A	EAAD091567	15.11.2019										
	Number	Drawn date	Number	Drawn date	Number	Drawn date	Number	Drawn date					
WIN GD Winterthur Gas & Diesel		Product W-25		EXPANSION TANK CENTRAL COOLING WATER HT CIRCUIT Ausgleichstank Zentralkuehlwassersystem HT circuit									
Units	mm kg	NX	Basic Material		Net Weight 0,001								
SURFACE PROTECTION SEE GROUP 0344		Made	16.04.2009 M.PRSTEC		Scale	1:10	Size	A2	Page	1/1	Material ID	107.413.097.500	
TOLERANCING PRINCIPLE ISO8015		Chkd			Design Group		9721		Drawing ID		107.413.097	Rev.	A
GENERAL TOLERANCES ACCORDING TO ISO2768-mK		Appd	30.04.2009 MPR002 Prstec										



Drawn for 0.75 m³ capacity

Pos.	Description
001	Drain
002	Balance pipe from LT circuit
003	Overflow/air vent
004	Low level alarm
005	Thermometer
006	Level indicator *1)
007	Inspection cover *2)
008	Filling pipe/inlet chemical treatment *2)

Remarks:

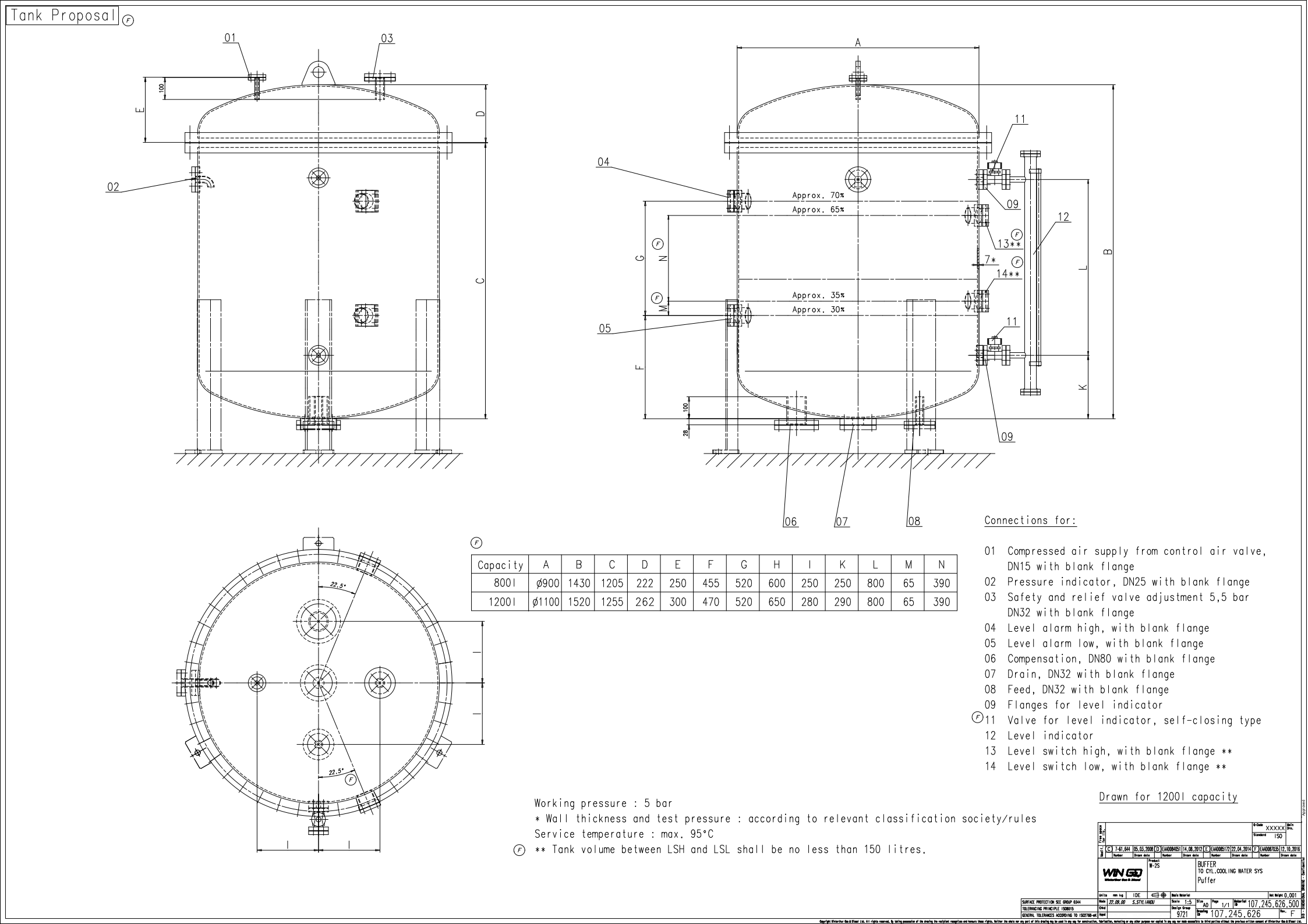
- *1) Level indicator can be omitted if an alternative is fitted.
- *2) Other designs like hinged covers, etc. are also possible

- For required tank capacity and pipe diameters refer to drawing 'Central cooling water system'

Table 1: Tank dimensions

LT tank capacity	W	X	Y	Z
(m ³)	(mm)	(mm)	(mm)	(mm)
0.5	800	800	330	640
0.75	800	1200	500	960
1.0	800	1600	670	1280
1.25	1000	1250	530	1000
1.5	1000	1500	630	1200
1.75	1000	1750	730	1400
2.0	1000	2000	830	1600

Modif.	Free space for lic.						Q-Code XXXXXX Standard ISO; JIS	Main Drw.			
	A	EAAD014356	16.06.1997	B	7-37.090	16.08.2007	C	EAAD083145	25.01.2012	D	EAAD091029
Number		Drawn date		Number		Drawn date		Number		Drawn date	
								Product W-25		EXPANSION TANK CENTRAL COOLING WATER LT CIRCUIT Ausgleichstank Zentralkuehlwassersystem LT	
Units		mm kg		NX		Basic Material		Net Weight		0,001	
SURFACE PROTECTION SEE GROUP 0344		Made		11.06.1997		T.LANDERT		Scale		1:10	
TOLERANCING PRINCIPLE ISO8015		Chkd						Size		A2	
GENERAL TOLERANCES ACCORDING TO ISO2768-mK		Appd		11.06.1997		WCH001 Service User		Design Group		9721	
								Drawing ID		107.245.419	
								Material ID		107.245.419.500	
								Rev.		D	



MIDS_COOLING-WATER-SYSTEM (DG9721)

WinGD-X62-S2.0

TRACK CHANGES

DATE	SUBJECT	DESCRIPTION
2021-03-01	DRAWING SET	First web upload
2024-02-20	PAAD362616A PAAD362619A	New revision
2024-05-14	PTAA081050- PAAD362616-A PAAD362619-A PAAD362620-B PAAD362621-B PTAA081045-	New revision

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