


Available executions

Execution No.	Material ID	Attribute 1: Emmission class (Tier)			
		Tier II without SCR	Tier III HP-SCR on-engine	Tier III HP-SCR off-engine	Tier III LP-SCR off-engine
001	PAAD379239	X		X	X
002	PAAD379240		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.	X52-S2.0									
Change History										
	-	sna102	mhu019	24.05.2023	CNAA003753	new Design		-	-	
	Rev.	Creator	Approver	Approval Date	Change ID	Change Synopsis	Approved	Activity Code	E C	
			AIR SUPPLY SYSTEM MIDS master drawing							
separate BOM available			Dimension							
Scale	-		NX	Units [mm] [kg]	Basic Material			Net Weight	0.001	
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				Qty per	A4	Item ID	PTAA025644		Drawing Page/s	1/1

SEQ NO	QTY	Item ID	Item Name	Dimension	Standard-ID	Basic Material	Net Weight
1	1	PAAD379236	AIR SUPPLY SYSTEM				0.001

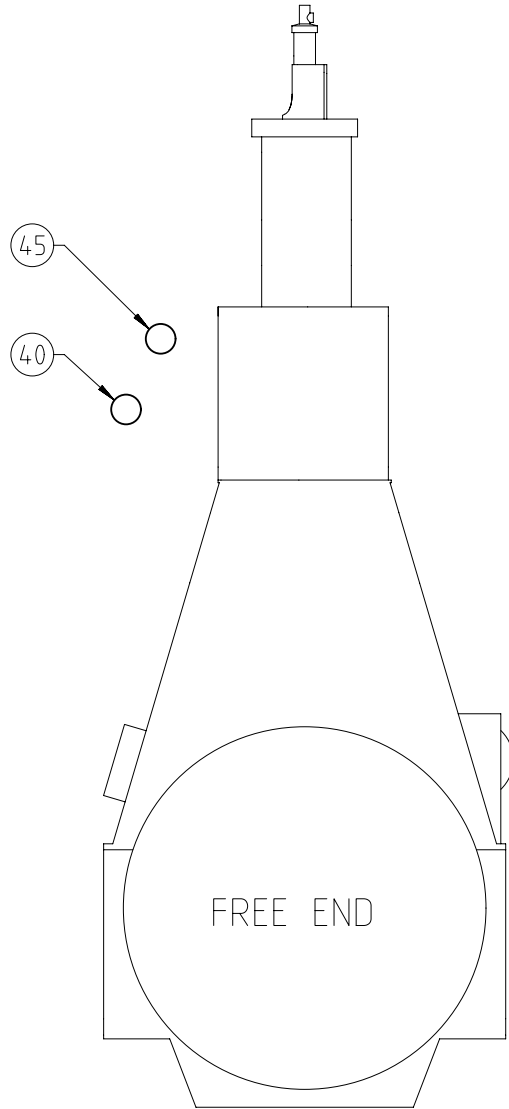
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Prod.	5,6,7,8 X52-S2.0						
Change History							
	A	sde101	mhu019	30.04.2021	EAAD096559	Legacy information. See corresponding ChangeNotice	4 3
	-	dki021	mhu019	26.04.2021	EAAD787404	-	- -
	Rev.	Creator	Approver	Approval Date	Change ID	Change Synopsis	Activity Code E C

	<h2>AIR SUPPLY SYSTEM</h2> <h3>PAAD379239</h3>
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<b>Bill Of Material</b>		Dimension					
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	Main Design	Yes	Design Group	9725	Q-Code	XXXXX	Standard WDS
	Qty per	Engine	A4	Item ID	<b>PAAD379239</b>		BOM Page/s

X52-S2.0  
X52DF-S1.0



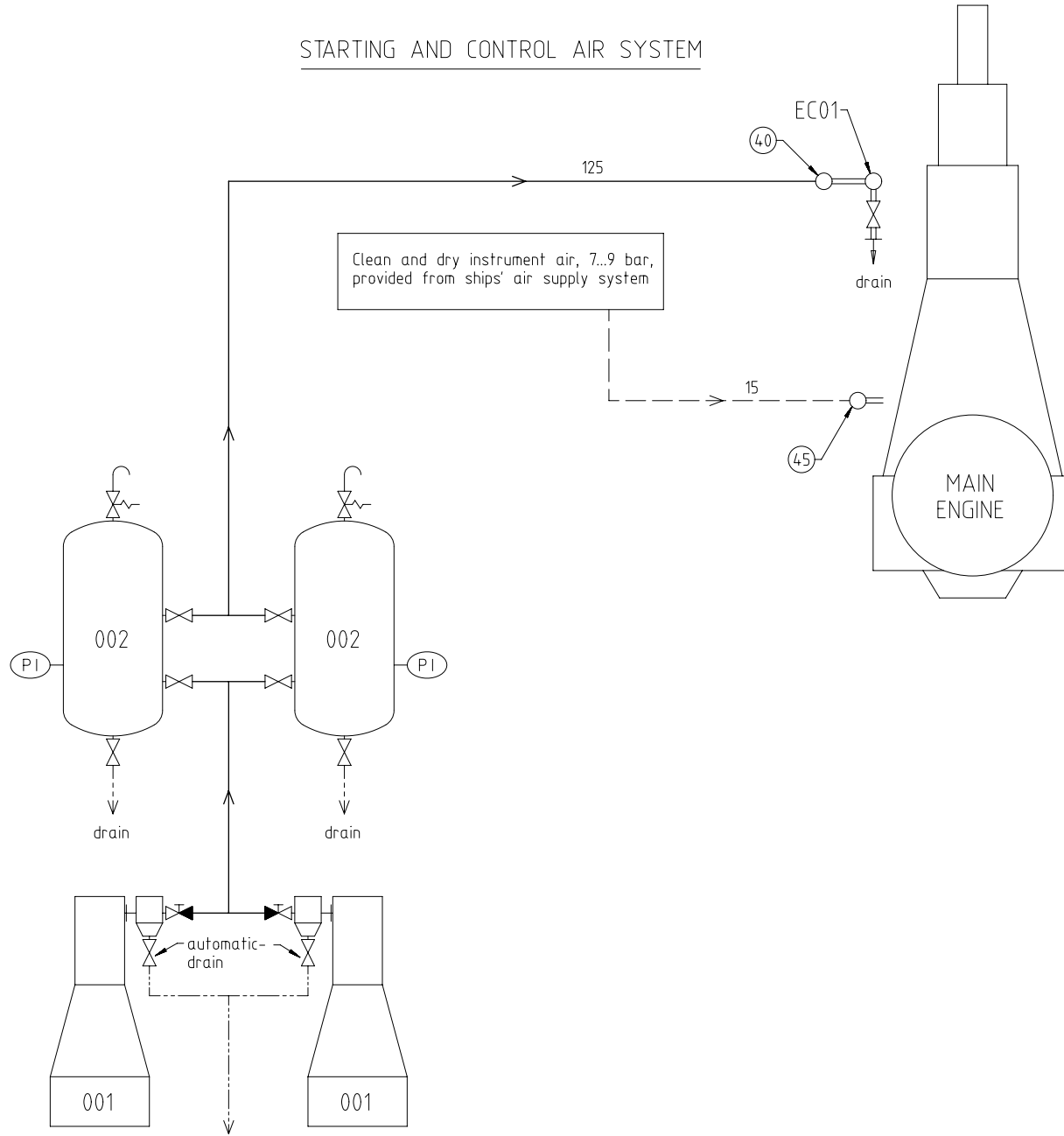
SPECIFICATION which must be met:

(40)	INLET - Starting air Starting air pressure: 25 or 30 bar (according to design) Capacity of starting air receivers: according to GTD
(45)	INLET - Control air Control air pressure: 7-9 bar Control air quality has to be comply with the compressed air purity class: 5-4-3 according to ISO 8573-1(2010-04-15)

Free space for lic.								Q-Code XXXXXX	Main Drw.				
								Standard ISO; JIS					
Modif.	○		○		○		○						
	Number	Drawn date	Number	Drawn date	Number	Drawn date	Number	Drawn date					
<b>WIN GD</b> Winterthur Gas & Diesel		Product 5-8X52-S2.0 5-8X52DF-S1.0		AIR SUPPLY SYSTEM									
		Luftversorgungssystem											
Units	mm kg	NX			Basic Material			Net Weight 0,001					
SURFACE PROTECTION SEE GROUP 0344		Made	07.04.2021 dki021 DH.Kim		Scale	-	Size	A3	Page	1/2	Material ID	PAAD379236	
TOLERANCING PRINCIPLE ISO8015		Chkd	26.04.2021 jpi101 Pickup		Design Group		9725		Drawing ID	DAAD142347		Rev.	-
GENERAL TOLERANCES ACCORDING TO ISO2768-mK		Appd	26.04.2021 mhu019 Hug										

DID - DIMENSIONAL DRAWING - Confidential

STARTING AND CONTROL AIR SYSTEM



Pos.	System Components *1)
001	Starting air compressor 25/30 bar (capacity according to GTD)
002	Starting air receiver 25/30 bar (capacity according to GTD)

Pos.	Engine Connections *2)
④0	INLET - Starting air
④5	INLET - Control air (for control system and air spring)

Pos.	Engine Components *3)
EC01	Distribution pipe with automatic starting air shut-off valve

Remarks:

- Drain plugs and drain cocks to be installed where necessary.
- Pipe diameters for starting air compressors and auxiliary equipment according to suppliers recommendations.

- \*1) Refer to the "Pipe Connection Plan" for the execution and location of the engine pipe connections.
- \*2) To be delivered by external supplier and to be installed by the shipyard.
- \*3) To be delivered by the engine builder, i.e. already equipped on engine side.

- Starting air feed pipes
- - - Control air pipes
- Ancillary equipment pipes
- - - - Drain pipes
- ==== Pipes on engine
- Pipe connections

Free space for ill.	Q-Code XXXXX						Main Drw.						
	Standard ISO; JIS												
Modif.	Number	Drawn date	Number	Drawn date	Number	Drawn date	Number	Drawn date					
		Product 5-8X52-S2.0 5-8X52DF-S1.0		AIR SUPPLY SYSTEM Luftversorgungssystem									
Units	mm kg	NX	Basic Material		Net Weight 0,001								
SURFACE PROTECTION SEE GROUP 034.4		Made	07.04.2021	dk1021	DH.Kim	Scale	-	Size	A2	Page	2/2	Material ID	PAAD379236
TOLERANCING PRINCIPLE ISO8015		Chkd	26.04.2021	jpr101	Pickup	Design Group		9725	Drawing ID		DAAD142347	Rev.	-
GENERAL TOLERANCES ACCORDING TO ISO2768-mK		Appd	26.04.2021	mhu019	Hug								

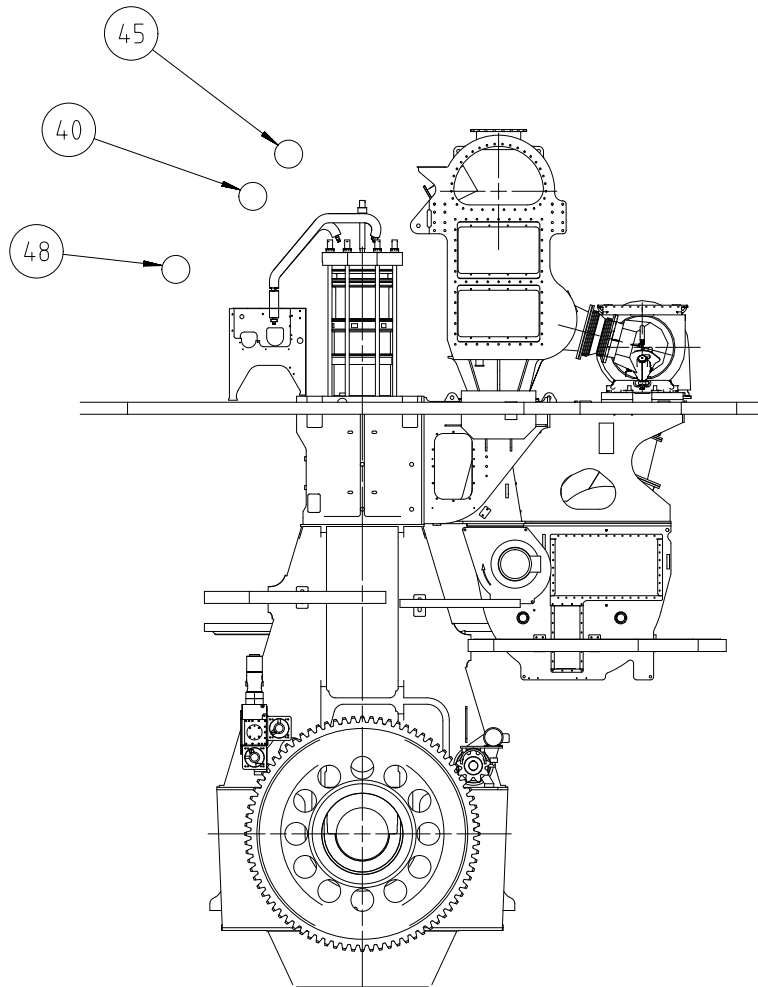
SEQ NO	QTY	Item ID	Item Name	Dimension	Standard-ID	Basic Material	Net Weight
2	1	PAAD379238	AIR SUPPLY SYSTEM				0.001

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Prod.	5,6,7,8 X52-S2.0						
Change History							
	A	sde101	mhu019	30.04.2021	EAAD096559	Legacy information. See corresponding ChangeNotice	4 3
	-	dki021	mhu019	26.04.2021	EAAD787404	-	- -
	Rev.	Creator	Approver	Approval Date	Change ID	Change Synopsis	Activity Code E C

	<h2>AIR SUPPLY SYSTEM</h2> <h3>PAAD379240</h3>
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<b>Bill Of Material</b>		Dimension					
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	Main Design	Yes	Design Group	9725	Q-Code	XXXXX	Standard WDS
	Qty per	Engine	A4	Item ID	<b>PAAD379240</b>		BOM Page/s

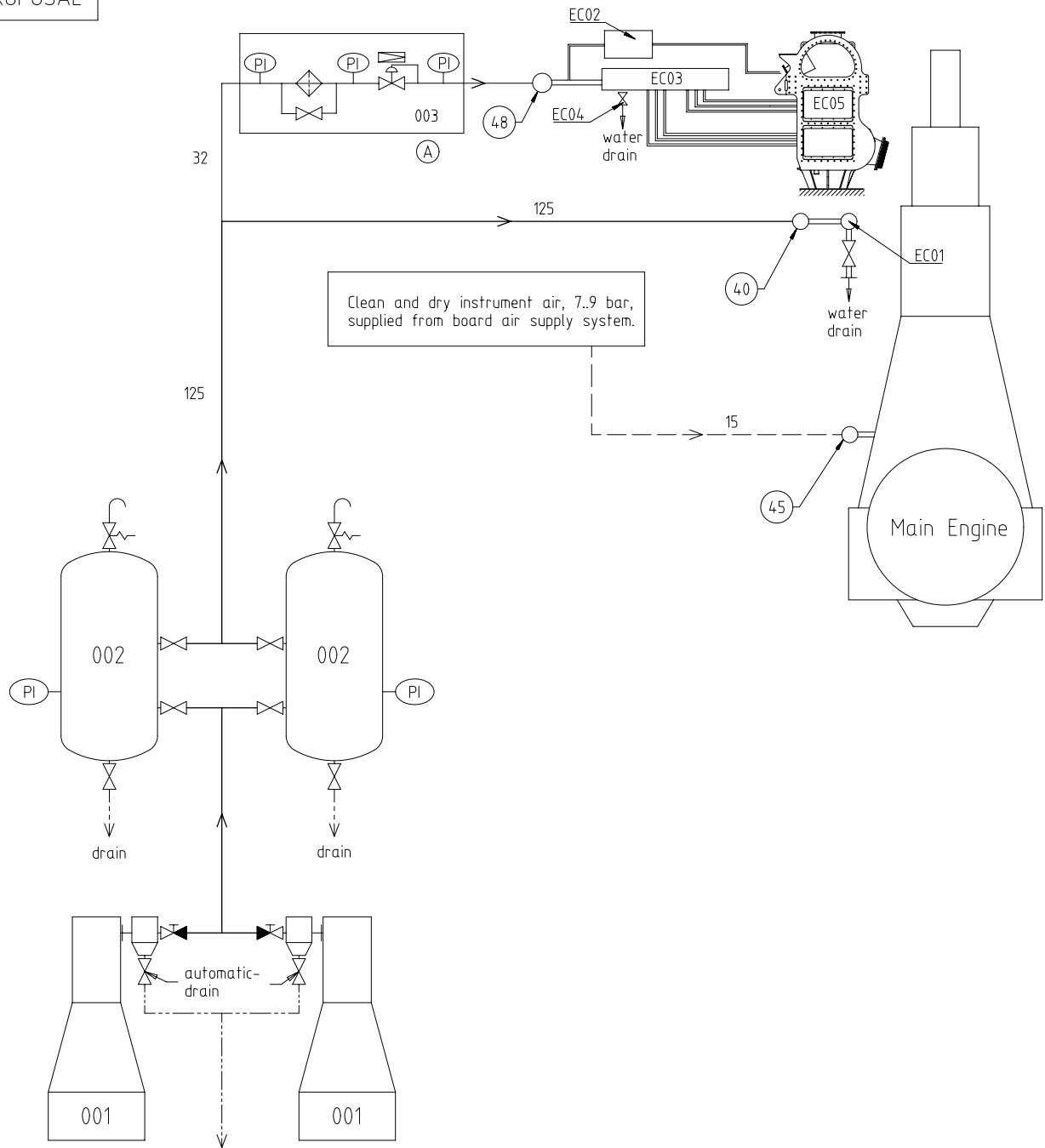


(A) Minimum specification to be met:

- (40) INLET - Starting air
  - Starting air pressure: 25 or 30 bar (according to design)
- (45) INLET - Control air
  - Control air pressure: 7-9 bar
  - Control air quality: In compliance with the compressed air purity class: 5-4-3 according to ISO 8573-1 (2010-04-15)
- (48) INLET - Air supply urea dosing unit and SCR air rail pipe
  - Air pressure: 10-12 bar
  - Air quality: In compliance with the compressed air purity class: 6-8-4 according to ISO 8573-1 (2010-04-15)
  - Air consumption: According to the specification in the MIM

Prod.	X52-S2.0													
Change History	A	npa101	nm019	18.09.2024	EAAD06549	Drawing updated					4	3		
	-	dki021	mhu019	26.04.2021	EAAD787404	-					-	-		
	Rev.	Creator	Approver	Approval Date	Change ID	Change Synopsis					Approved	Activity Code	E	C
<b>WINGD</b>						AIR SUPPLY SYSTEM with iSCR								
						Dimension								
Scale	-		NX	Units [mm] [kg]	Basic Material				Net Weight	0.001				
SURFACE PROTECTION SEE GROUP 0344				Copyright WinGD Ltd. All rights reserved. By taking possession of the drawing the recipient recognizes and honours these rights. Neither the whole nor any part of this drawing may be used in any way for construction, fabrication, marketing or any other purpose not copied in any way nor made accessible to third parties without the previous written consent of WinGD Ltd.				Main Design	Design Group	9725	Q-Code	X X M	Standard	WDS
TOLERANCING PRINCIPLE ISO8015								Qty per	A3	Item ID	PAAD379238		Drawing Page/s	1/2
GENERAL TOLERANCES ACCORDING TO ISO2768-mK														

SYSTEM PROPOSAL



Pos	System Components *1)
001	Starting air compressor 25/30 bar (capacity according to GTD)
002	Starting air receiver 25/30 bar (capacity according to GTD)
003	Air conditioning unit
Pos	Engine Connections *2)
(40)	INLET - Starting air
(45)	INLET - Control air (for control system and air spring)
(48)	INLET - Air urea dosing unit and SCR air rail pipe
Pos	Engine Components *3)
EC01	Distribution pipe with automatic starting air shut-off valve
EC02	Urea dosing unit
EC03	Air rail pipe SCR soot blowing system
EC04	Water drain valve, air rail pipe SCR soot blowing system
EC05	SCR reactor
Remarks	
- Drain plugs and drain cocks to be installed where necessary. - Pipe diameters for starting air compressors and auxiliary equipment according to suppliers recommendations.  *1) Refer to the "Pipe Connection Plan" for the execution and location of the engine pipe connections.  *2) To be delivered by external supplier and to be installed by the shipyard.  *3) To be delivered by the engine builder, i.e. already equipoped on engine side	

- Starting air feed pipes
- - - Control air pipes
- Ancillary equipment pipes
- - - Drain pipes
- ==== Pipes on engine
- Pipe connections

SURFACE PROTECTION SEE GROUP 0344		Change Rev. A	Creator hpa101	Approver rhl019	Approval Date 18082024	Change ID 04M0065-9	Drawing updated		4	3
TOLERANCING PRINCIPLE ISO8015		Copyright: Wärtsilä Ltd. All rights reserved. By taking possession of this drawing the recipient acknowledges and releases Wärtsilä from all liability for any part of this drawing that is used in any way for construction, fabrication, installation or any other purpose not agreed to in the purchase order or otherwise in writing without the previous written consent of Wärtsilä Ltd.				[mm] [kg]	-	A2	Item ID PAAD379238	Drawing Pages 2/2
GENERAL TOLERANCES ACCORDING TO ISO2768-mK						NX	10	11	12	

## MIDS – Air Supply System (DG9725) WinGD X52-S2.0

### TRACK CHANGES

DATE	SUBJECT	DESCRIPTION
2021-05-10	DRAWING SET	First web upload
2023-05-25	PAAD379239 PAAD379240	New revision
2024-10-09	PAAD379238A	New revision

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