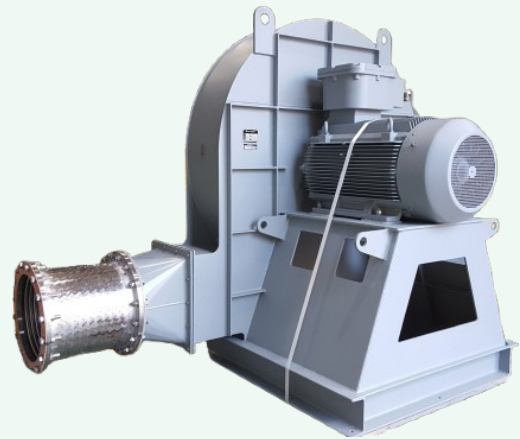




Ventilation Fans

Centrifugal Fan

- Efficient to the high-pressure performance of small air volumes.
- Suitable for high pressured space with long distance.
- Optimized design impeller.
- Various maintenance structures fitting users' requests.
- Uses : Double Wall Piping, GVU/GRU, LNG Space, Gas free, Auxiliary, Boiler F.D, Plant, etc.



No	Contents	Technical Range	No	Contents	Technical Range	No	Contents	Technical Range
1	Air Volume	Up to 1,000m ³ /min	4	Motor Capacity	0.4kw ~ 200kw	7	Sound Level	60dB ~ 135dB
2	Static Pressure	Up to 2000mmAq	5	Air Velocity	1m/s - 80m/s	8	Efficiency	50 ~ 90%
3	Fan Diameter	100mm ~ 1,800mm	6	Fan Speed	800 ~ 3,500rpm	9	Use	Ship, Plant, Land

Axial Flow Fan

- Efficient to the low-pressure performance of small air volumes.
- Airfoil-shaped blade using Al-alloy with bolt.
- Optimized performance with adjusted pitch blades.
- High efficiency and low noise on account of the guide vane.
- Various maintenance structures fitting users' requests.
- Uses: Engine room, Cargo hold, Purifier room, Battery room, Paint store, Plant, Land



No	Contents	Technical Range	No	Contents	Technical Range	No	Contents	Technical Range
1	Air Volume	Up to 5,000m ³ /min	4	Motor Capacity	0.4kw ~ 160kw	7	Sound Level	60dB ~ 125dB
2	Static Pressure	Up to 150mmAq	5	Air Velocity	1m/s ~ 30m/s	8	Efficiency	50 ~ 90%
3	Fan Diameter	300mm ~ 2,500mm	6	Fan Speed	750 ~ 3,500rpm	9	Use	Ship, Plant, Land

Jet Fan

- Satisfies required air change rate in tunnel and parking lots.
- With equal performance in front and rear, effectively ventilates the air in emergency.
- Effectively ventilates the contaminated air in underground parking lot which has poor ventilation in general.
- Low noise and easy ventilation.



Ventilation Fans

Mushroom Head

- Blocking up seawater and rainwater also cutting off air inflow to extinguish fire effectively.
- Easy to open and close when manually operates.
- Highly competitive in pricing with simple design.
- Maintaining weathertight function even when the damper is closed.
- An opening / closing damper is installed inside so that it can block up water used for fire extinguishing and high wave.
- Inlets or outlets the air by connecting head with air ventilating, mechanical / natural fan, and it is installed on the upper part of plant so that it can prevent the direct inflow of rainwater and seawater.
- Options : w/ Silencer & Protection cover, w/o damper



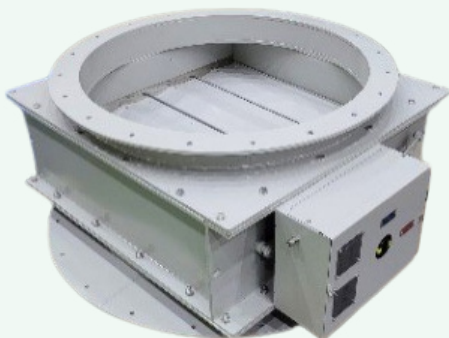
Manhole Fan

- Axial Flow Fan to discharge gas in vessel.
- Centrifugal Fan to discharge gas in vessel.
- Rocket Fan to supply gas for vessel.
- Portable Fan to discharge gas in vessel.



Damper

- Various designs for user's requests.
- Highly competitive in price with simple design.
- Maximizes efficiency with multifunctional products connected.
- Blocks flame and air in advance to prevent fire spread.
- Types : Round or Square, Manual or Pneumatic or Electric, 1-blade or 3-blade or Multi-blade, w/ Silencer



Silencer

- Low noise comparing to the products of the competitors.
- Various models for various noise level.
- Decreasing 6 dB ~ 8 dB noise per length 1D (Diameter) connected to the silencer.
- Blocks flame and air in advance to prevent fire spread.
- Types : 1D or 2D length, w/ core, w/ Damper & mushroom head



Analysis

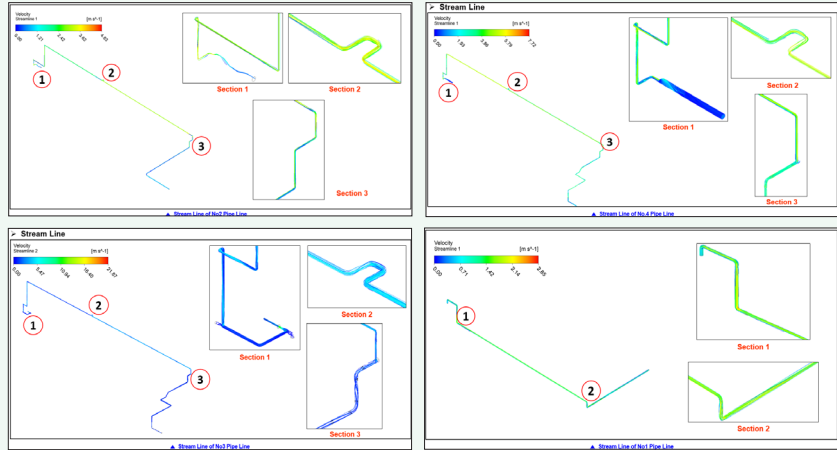
CFD(Computational Fluid Dynamics) Analysis Report for DWP (Double Wall Piping) Ventilation System

1. Purpose of interpretation

Interpret for accurate specification selection of D.W.P FAN

2. Method

Calculate the pressure drop for the line-by-line shape/length of the D.W.P. and reflect it in the Fan

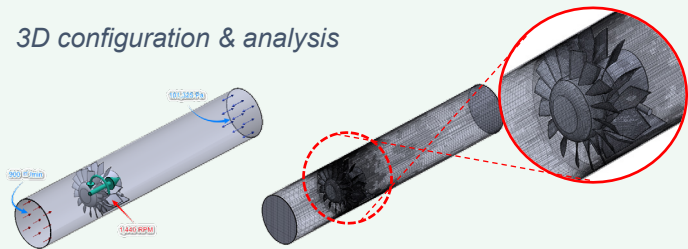


CFD(Computational Fluid Dynamics) Analysis for Axial Fan

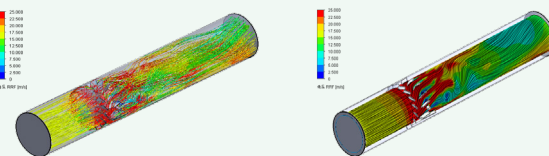
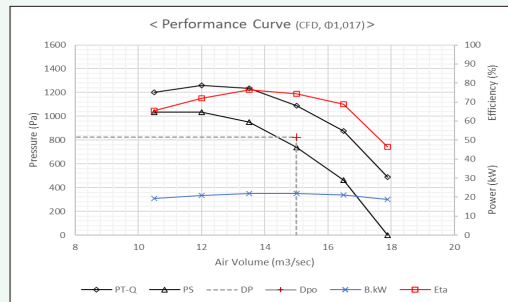
The basic design of the blower is reflected by referring to the specific speed into the design

- Flow rate : $15\text{m}^3/\text{sec}$ (= $900\text{m}^3/\text{min}$)
- Total pressure : 824Pa (= 84mmAq)
- Rotations : $1,440\text{rpm}$
- Gas density : $1.003\text{kg}/\text{m}^3$ at 79°C
- Specific speed : 1556

3D configuration & analysis

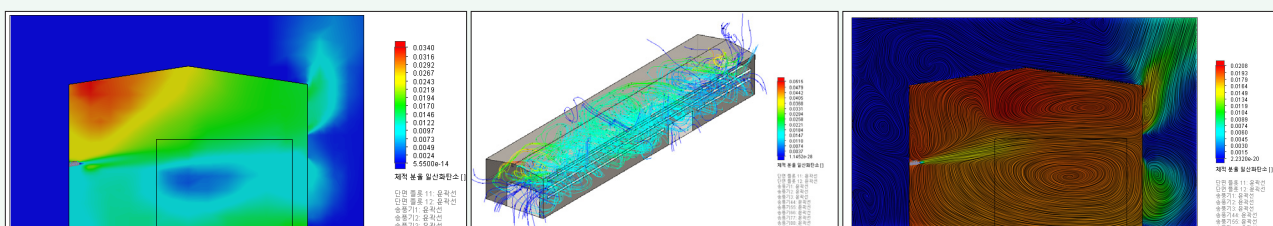


Result & summary



CFD (Computational Fluid Dynamics) Analysis Report for Jet Fan

A jet fan is installed to effectively discharge welding-generated contaminated gas from the factory and the gas discharge status is identified



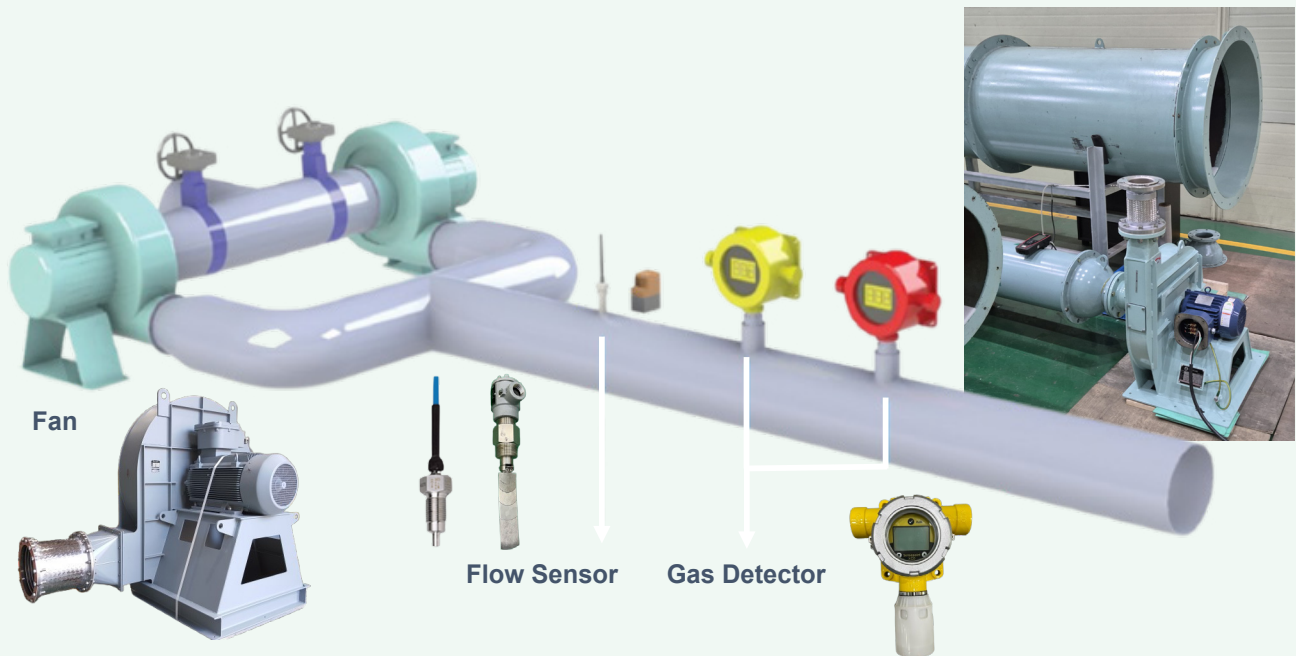
Volume fraction carbon monoxide (%)

Flow trajectory

Summary

Ventilation system for DWP

Talent LNG has been designing and fabricating total ventilation system package according to customers' needs and applications.



Fans

- Centrifugal Fan (Ex-proof / Normal type)
- Axial Flow Fan (Ex-proof / Normal type)
- Jet Fan
- Mushroom Head
- Damper (Fire / Ex-proof / Normal)
- Silencer
- Manhole Fan (For shipbuilding)



Centrifugal Fan



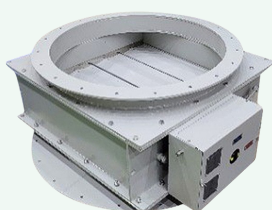
Axial Flow Fan



Jet Fan



Mushroom Head



Damper



Silencer



Manhole Fan

Certificates



ISO 9001 (ABS-2015)



ISO 14001 (2015)



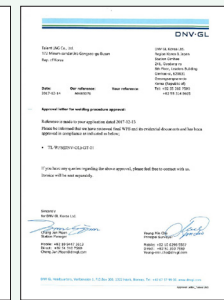
ISO 45001 (2018)



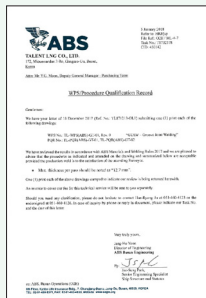
ABS ISO 3834-2 (2021)



WPS-Procedure
Qualification Record
(DNV-GL)



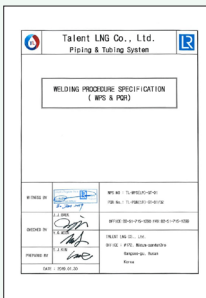
WPS-Procedure
Qualification Record
(DNV-GL)



WPS-Procedure
Qualification Record
(ABS)



WPS-Procedure
Qualification Record
(BV)



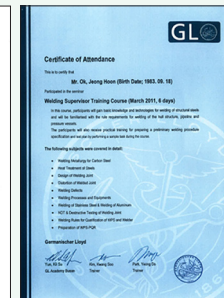
WPS-Procedure
Qualification Record
(LR)



WPS-Procedure
Qualification Record
(RINA)



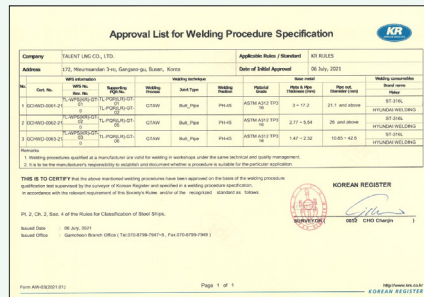
WPS-Procedure
Qualification Record
(NK)



Certificate of Attendance
(Welding Supervision)
(GL)



WPS(CSS)



WPS(KR)



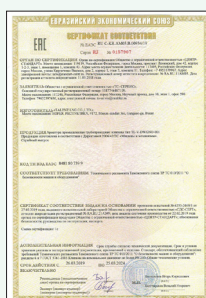
TRCU(EAC) - Flange



TRCU(EAC) - Tube



TRCU(EAC) - Pipeline/
Vessel



TRCU(EAC) - Valve



Vacuum Insulated
Piping



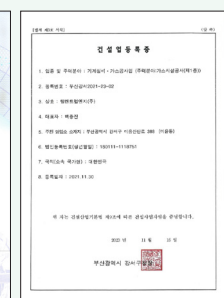
Vacuum insulated
double pipe



Gas feeding system
of ship engine



Smart air heating system
for feeding fuel of ship
engine



1st Grade of Gas
Construction Business
Registration Certificate.



Vacuum insulated pipes
(Japan)



Vacuum insulated pipes
(China)



388, Mieumsandan-ro,
Gangseo-gu, Busan, Korea
TEL. +82-51-715-1290
FAX. +82-51-715-1298
E-Mail. sales@talent-tl.com
greer@talent-tl.com
rider@talent-tl.com