

MBNS – International, spol. s r.o.



Brno 2020

COMPANY



HISTORY

- existing from 1991
- private owned from 1995
- own fabrication from 2005

DATA

- Location: Brno, Czech Republic
- Employees: approx. 60
- Main markets: EU, C.I.S., Middle East



PRODUCTS

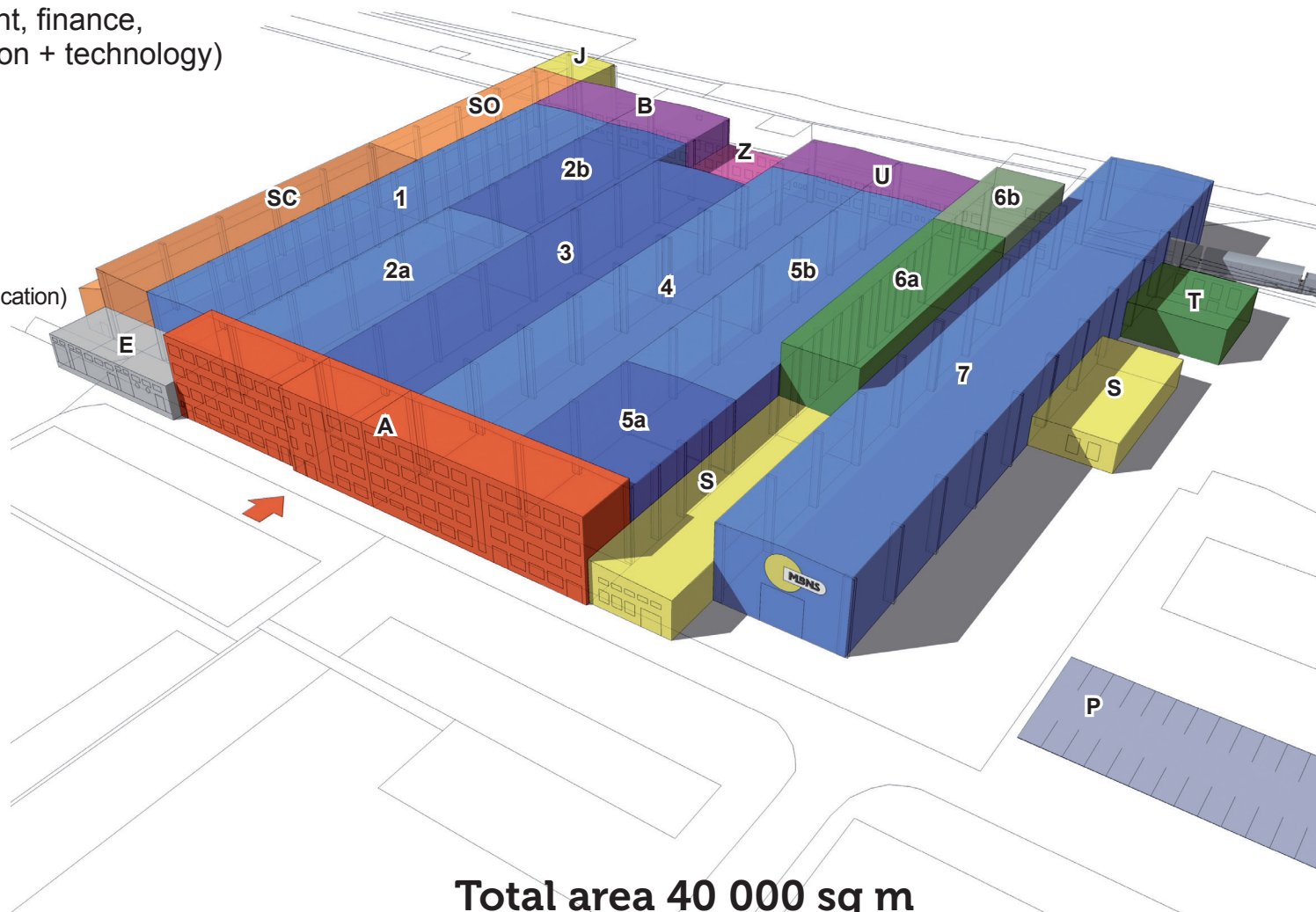
FABRICATION OF THE EQUIPMENT FOR OIL, GAS, CHEMICAL, PETROCHEMICAL AND POWER INDUSTRIES

- Fired heaters, process furnaces, reformers
 - Coils - radiant, convection, helical etc.
 - Pre-heaters, stacks, structures etc.
 - Effluent chambers, manifolds, transferlines, cross-overs, pigtails etc.
 - Tube bundles
 - Pressure vessels
 - Piping and tubular systems
 - Heavy steel structures
-
- up to max. weight 100 tons/pc;
max. length 28 m/pc; max. diameter 5,5 m



FABRICATION SHOPS

- A** administration offices (management, finance, trade, QM, engineering, construction + technology)
- 1** machining shop
- 2a** welding shop (automatic)
- 2b** mechanic and plate forming shop
- 3** tube bending shop
- 4** welding and assembly shop
- 5a** clean room (stainless and special steel fabrication)
- 5b** welding and assembly shop
- 7** heavy assembly & shipment shop
- Z** non-destructive analysis (X-ray)
- 6a** paint shop
- 6b** paint shop
- T** blast cleaning shop
- S** stores
- SC** closed store
- SO** open store
- J** scrap yard
- B** grinding shop & tool crib
- U** maintenance
- E** substation
- P** parking



Total area 40 000 sq m
Covered production area 17 000 sq m

FABRICATION FACILITIES



MECHANIC AND PLATE FORMING SHOPS

Plate edge planning - HHP 10 planning machine

- min. plate width 90 mm, max. plate length 9000 mm, through height 90 mm

Pre-bending - press HPC 250 TO

- max. die width 1000 mm, max. piston stroke 520 mm, max. piston centre-to-housing frame depth 500 mm

Plate roll bending

- max. plate thickness 45 mm, width 3000 mm

Oxy-acetylene cutting

- automatic max. 50 mm, manual max. 20 mm (CS)

Plasma cutting

- max. 50 mm (SS)

Plate cutting

- max. 10 x 3000 mm

Saw cutting

- At an angle up to 130 mm, upright 300 mm



FABRICATION FACILITIES



WELDING

Submerged arc welding (SAW) and plasma arc welding (PAW)

- min. Ø 750 mm, max. Ø 5500 mm (3x ESAB + Lincoln machines)

Standard thickness of welded plates, pipes and flanges

- carbon steel 3 - 100 mm, stainless steel 3 - 100 mm

GTAW (TIG/WIG)

- pipe outside Ø 16 - 800 mm (EWM, Fronius, Omicron – 15pcs)

GMAW (MIG/MAG)

- conventional and pulse welding in shield gas, pulse welding-mainly SS, sources up to 500 A/60%ED (EWM, Fronius, Omicron – 15pcs)

Electrode

- conventional and special welding (EWM – 5pcs)

GTAW (TIG/WIG)

- pulse sources up to 500 A/60%ED (EWM – 2pcs)

Stud welding

- NELSON resistance stud welding from Ø 6 to Ø 14 mm (2pcs)



FABRICATION FACILITIES



TUBE BENDING

Hot bending

- D 89 - 377 mm, R min. 3 D but min. 450 mm,
- R max. 3000 mm, max. bend angle 180°, max. wall thickness 23 mm

Cold bending

- D from 16 to 51 mm, R min. 3 D, max. 200 mm, max. bend angle 180°, max. wall thickness 3,5 mm
- D from 57 to 108 mm, R min. 3 D - max. 600 mm, max. bend angle 180° (new AMOB machine)
- D from 20 to 159 mm, R min 3 D, R max. unlimited, bend angle 360°, max. wall thickness 2-8 mm
- tubes can be bent with the bend axis placed in more planes, as well as helically up to max. \varnothing 159 mm

Press for panel straightening

- load – 350 tons (own design and fabrication)



FABRICATION FACILITIES



MACHINING

Horizontal boring and milling machine PT160 (new 2017)

- spindle Ø 160 mm, X = 3150 mm, Y = 2300 mm, Z = 1600 mm, clamping area 6000 x 4000 mm, maximum load 20 t

Vertical lathe SK25A CNC (new 2018), SK 16, SK12

- max. machining Ø 2700 mm, max. workpiece height 1500 mm, maximum load 12,5 t

Lathes

- max. machining Ø 620 mm, max. L = 4500 mm, maximum load 3 t

Milling machines

- spindle Ø 110 mm, X = 1600 mm, Y = 1250 mm, Z = 800 mm, clamping area 1400 x 1400 mm, maximum load 8 t

Drilling machines

- max. drilling Ø 40 mm, max. working span D = 2000 mm, max. workpiece height 1200 mm



FABRICATION FACILITIES

OTHER

Non-destructive testing (indoors)

- X-ray RT, ultrasonic testing UT (new Olympus machine), magnetic testing MT, penetration testing PT, visual inspection, positive material identification PMI (NITON machine)

Surface treatment

- blast cleaning, painting, pickling

Heat treatment

- post welding heat treatment/stress relieving PWHT (Weldotherm machine)

Refractory works

- refractory & anchors supply and installations, dry-outs



CERTIFICATES



- EN ISO 9001 : 2015
- EN ISO 9001 : 2015 in relation to EN ISO 3834-2 : 2005
- AD 2000 Merkblatt HPO & EN ISO 3834-2 : 2005
- EN 1090-1 + A1:2011
- MBNS also provides GOST-TRCU certification for particular projects in C.I.S. countries
- ASME certified welders (WPQ) & procedures (PQR)

CQS z.s.
Prosecká 412/74, 190 00 Praha 9 - Prosek
Czech Republic

CQS is the Certification Body accredited according to Standard EN ISO/IEC 17021-1:2015 by the Czech Institute for Accreditation under the registration No 3029 for the Certification of Quality Management Systems

CQS certifies that the Quality Management System of

MBNS - International, spol. s r.o.
Křížkova 2984/68f, Královo Pole, 612 00 Brno, Czech Republic

has been assessed and found to be in conformity with the requirements of

EN ISO 9001:2015 in relation to EN ISO 3834-2:2005

The above-mentioned company has the Quality Management System certified in accordance with EN ISO 9001:2008. Certificate No. CQS 2075/2017. Valid: 13.06.2017. Issued by CQS - The Association for Quality Certification

with respect to the following processes:

- Manufacture of furnaces, pressure vessels and piping elements
- Manufacture of steel structures

The certificate is valid until: 12. 06. 2020
Certification decision: 13. 06. 2017
Date of issue: 13. 06. 2017
Date of granting the first certificate: 19. 05. 2010

Jana Olšanská
Managing Director

The Appendix outlining the scope of certification according to EN ISO 3834-2:2005 forms an integral part of the certificate

CQS Members:
Elektronický zkušební ústav, s.p. / Электронный испытательный центр, с.п. / Institut pro testování a certifikaci, s.p. /
Slovenský zkušební ústav, s.p. / Тестовый и аттестационный центр Словакии, с.п. / Testní zkušební ústav, s.p. /
Slovenský zkušební ústav, s.p. / Тестовый и аттестационный центр Словакии, с.п. / Testní zkušební ústav, s.p. /
* CQS member list valid at the time of issue of the certificate. Current list is available at www.cqs.cz

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Appendix
to Certificate CQS 88/2017

MBNS - International, spol. s r.o.
Křížkova 2984/68f, Královo Pole, 612 00 Brno, Czech Republic

1. Type of products:
— Manufacture of furnaces, pressure vessels and piping elements

2. Product standard(s) or alternative standard(s) (see EN ISO 3834-2):
EN 13445, EN 13480, EN 12952, ASME B31 - 1.3, EN 1090-2 (EXC-3)

3. Parent material group(s) (according to EN ISO/TR 18003):
— Group 1.1, 1.2, 8.1, 8.2, 43

4. Welding and allied processes:

Welding processes (according to ISO 4063)	Parent material groups (according to EN ISO/TR 18003)
111 - Manual metal arc welding	Group: 1.1, 1.2, 8.1, 8.2
121 - Submerged arc welding with solid wire electrode	Group: 1.1, 1.2, 8.1
135 - MAG welding with solid wire electrode	Group: 1.2, 8.1, 8.1 + 1.1, 8.1 + 1.2
138 - MAG welding with metal cored electrode	Group: 1.1
141 - TIG welding with solid filler material (non-ferrous)	Group: 1.2, 8.1, 8.2, 43, 8.1+1.1
763 - Oxygen arc stud welding in shielding gas	Group: 1.1, 1.2

4. Responsible Coordination Personnel:

NAME	QUALIFICATION	JOB FUNCTION & LEVEL*
Pavel Mlýnský	EW/ECZ 10065 - International Welding Engineer	Welding Technologist according to EN ISO 14731, chap. 6.2 (6)
Vlastimil Konečný	W/FCZ 36020 - International Welding Technologist	Representative of Welding Coordinator according to EN ISO 14731, chap. 6.2 (6)

*The level must be stated in order to comply with ISO 14731

In Prague: 13. 06. 2017

Jana Olšanská
Managing Director

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Křížkova 2984/68f, Královo Pole, 612 00 Brno, Czech Republic

has been assessed and found to be in conformity with the requirements of

EN ISO 9001 : 2015

with respect to the following processes:

- Manufacture of furnaces, pressure vessels and piping elements
- Manufacture of steel structures
- Mechanical engineering works

The certificate is valid until: 12. 06. 2020
Certification decision: 13. 06. 2017
Date of issue: 13. 06. 2017
Date of granting the first certificate: 19. 05. 2006

Jana Olšanská
Managing Director

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This is to certify that the Quality System of the Company

MBNS - International spol. s r.o.
CZ-612 00 Brno
Czech Republic/ Tschechien

durch die IAT Deutschland GmbH entsprechend den Forderungen aus
has been assessed by IAT Deutschland GmbH against the requirements of

AD 2000-Merkblatt HPO & EN ISO 3834-2:2005

bewertet wurde und den Nachweis der Erfüllung der obigen Spezifikation erbracht hat für die
and evidence of the fulfilment of the requirements of the above specification has been provided for the

**Manufacture of pressure equipment, piping, heaters and components
made of carbon steel and stainless steel.**

Herstellung von Druckgeräten, Rohrleitungen, Heizern und Komponenten aus Kohlenstoff- und rostfreien Stählen.

Die Zulassung gilt unter der Voraussetzung, dass das Qualitätssystem fortlaufend Aufrechterhalten
wird gemäß den Forderungen der oben genannten Spezifikationen.

Approval is subject to the continual maintenance of the quality system in accordance with the requirements of the above mentioned specification.

Einzelheiten der Bewertung sind im Bericht Nr. PRA160541/ vom 08.09.2016 enthalten.
Details of the assessment are contained in Report No. PRA160541 dated 08.09.2016.

Erstmalige Zulassung / Initial Approval: 13. September 2010
Zertifizierbarkeit bis / Certificate Expiry Date: 12. September 2019

Lloyd's Register Deutschland GmbH

Hamburg, 25. Oktober 2016
Ort und Datum
place and date

A. Pignat
Name, Unterschrift, Zertifizierer
Name, Signature, Certifier

STAYCERT
U Vystavěš 3, 170 00 Praha 7
Notified body No. 1517

**Certificate of conformity of the factory production control
No. 1517 - CPR - 5562016**

In compliance with Regulation 305/2011/EU of the European Parliament and of the Council of 9 March 2011
(the Construction Products Regulation or CPR), this certificate applies to the construction product

Structural components for steel structures
EN 1090-1+A1:2011 Execution of steel structures and aluminium structures -
Part 1: Requirements for conformity assessment of structural components

Product class EXC 3 according to EN 1090-2+A1:2011
Scope: construction with non-ferrous metal
Fulfillment of higher requirements for quality of welding according to CEN EN ISO 18184:2008

placed on the market under the name of

MBNS - International, spol. s r.o.
Křížkova 2984/68f, Královo Pole, 612 00 Brno, Czech Republic
IČ No. 60559073

and produced in the manufacturing plant

Křížkova 2984/68f, Královo Pole, 612 00 Brno, Czech Republic

This certificate attests that all provisions concerning the assessment and verification of consistency of
performance described in Annex ZA of the standard

EN 1090-1+A1:2011

under system 2+ we applied and that

**the factory production control is assessed to be in conformity with the applicable
requirements**

This certificate was first issued on 15.2.2010 and will remain valid as long as neither the harmonized standard
the construction product, the AVCP methods nor the manufacturing conditions in the plant are modified
significantly, unless suspended or withdrawn by the notified factory production control certification body

Prague, 15.2.2016

Ing. Pavel Florník
Director

CHOSEN REFERENCES 2011-2016



- effluent chambers and pigtails of the heater BA102.301 (SK, Slovnaft, 2016)
- combined feed heater 208-10-H001 (RF, Antipinsky, 2015)
- stripper reboiler heater 208-10-H003 (RF, Antipinsky, 2015)
- naphtha splitter heater 208-10-H003 (RF, Antipinsky, 2015)
- stabilizer reboiler heater 208-20-H002 (RF, Antipinsky, 2015)
- steam preheater 12 H-163 of sulphur acid plant (RF, Ryazan, 2015)
- feed heater P-351N (BLR, Mozyr, 2015)
- reformer effluent chamber OH-2001 (RF, Ryazan, 2015)
- reformer effluent chamber 28 m + line between superheaters DN 508 x 65 mm (IR, Pardis Petrochemical, 2014)
- helical coils for reformer No. 4+5 (BLR, Naftan, 2014)
- 4pcs of preheaters + ducts (CZ, APEX, 2014)
- 9 vessels + 2 heat exchangers (IRQ, Dukan, 2014)
- radiant coils + inlet/outlet manifolds (RF, Ryazan, 2014)
- heater H-01 (IRQ, Basrah, 2012)
- heater P150N, reboiler for column K150N (BLR, Mozyr, 2012)
- 3pcs of vacuum heaters (RF, TANEKO, 2011)



2017 FINISHED PROJECTS



- oil regeneration heater 2D-400, GER (incl. assembly)
- radiant coils of distillation fired heater B101.101, SK



2017 FINISHED PROJECTS

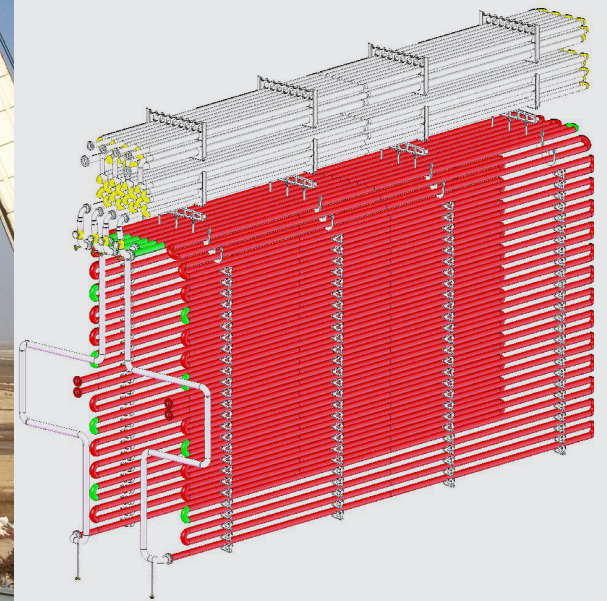
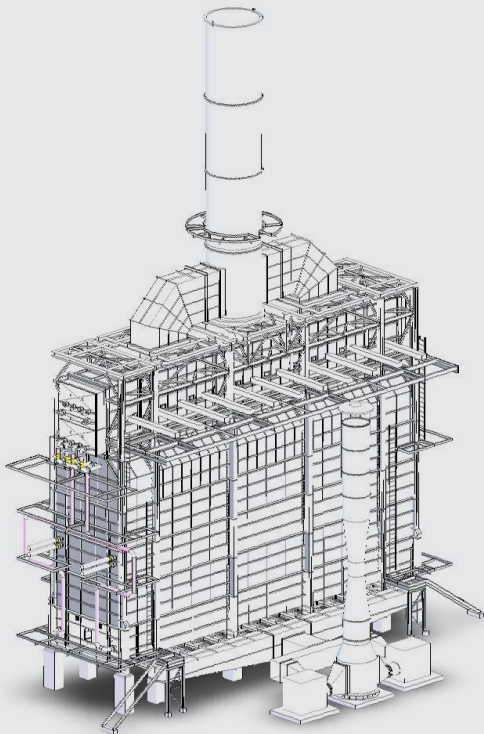


- methanol plant primary reformer convection bank flue gas ducts, header boxes and steel structure, IR
- spare parts for heater 2512-H03, CZ



2018 FINISHED PROJECTS

- atmospheric heater 4-H01 for PU-001 Crude Oil Distillation Unit with CDU No. 4 LPG Unit for Basrah Refinery, IRQ;
dimensions approx. 25 x 7 x 40 m, total weight approx. 800 tons



2018 FINISHED PROJECTS

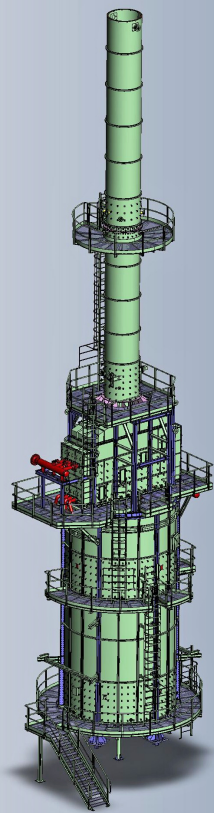
- atmospheric heater 4-H01 for PU-001 Crude Oil Distillation Unit with CDU No. 4 LPG Unit for Basrah Refinery, IRQ; dimensions approx. 25 x 7 x 40 m, total weight approx. 800 tons



2018 FINISHED PROJECTS



- 4pcs of Regeneration Gas Heaters for VE for Zohr Development Project, Egypt, tubes 141,3 x 9 mm, CS A335 Gr.P22



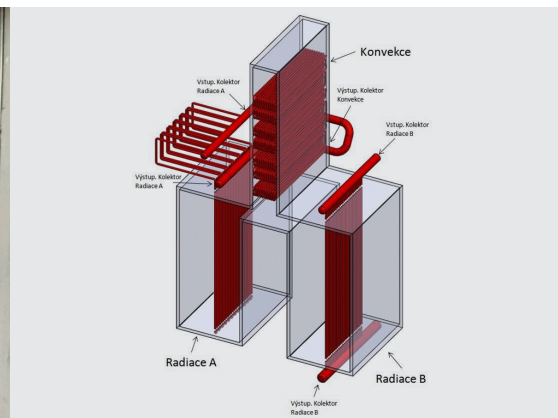
2018 FINISHED PROJECTS

- Spun cast Mixed Feed Inlet Headers of primary reformer H501 of Ammonia for Yara Sluiskil, NL, SMLS TUBES 355,6 x 27,3 mm and 457,2 x 33,45 mm A312 TP321H, pigtails 42,16 x 3,11 mm Incoloy 800H



2019 FINISHED PROJECTS

- Revamp of heater B-101 of Styren III unit at SYNTHOS Kralupy, CZ, radiant coils: A - inlet manifold $\varnothing 457,2 \times 12,8$ mm, A358Gr.304H, tubes Centralloy - HP40Nb+micro, outlet manifold $\varnothing 508 \times 18$ mm, Alloy 800HT + B - inlet manifold $\varnothing 508,13,2$ mm, A358Gr.304H, tubes $88,9 \times 6,35$ mm Centralloy - HP40Nb+micro, outlet manifold $\varnothing 609,6 \times 17,5$ mm, Alloy 800HT; radiant coils operating temperature $900 - 1200$ °C; convection: inlet manifold $\varnothing 406,4 \times 12,7$ mm, A106 Gr.B, tubes $\varnothing 88,9 \times 5,49$ mm, outlet manifold $\varnothing 457,2 \times 12,8$ mm, A358 Gr304H; cross-over piping: Alloy 800HT





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