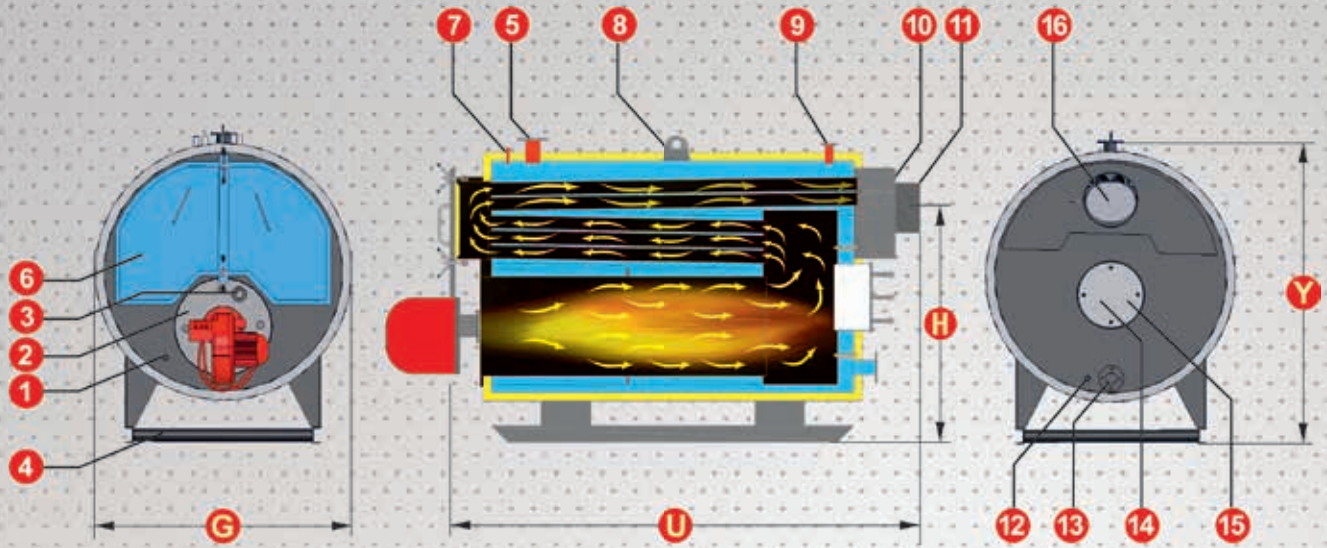


TS EN 12953-1-3
 TS EN 497
 TS EN 303-1-2-3-4
 ISO 9001-2008
 BFPN:152-2000



ASSF LIQUID GAS FUEL CYLINDRICAL SCOTCH TYPE THREE-PASS HEATING BOILERS

- It burns liquid and gas fuel at high efficacy
- Combustion efficacy is over 94% and more and it has an extremely sensitive design to the environment.
- With low fuel consumption, it provides fuel saving and economy.
- With three-transitive structure, it is more durable than the other boilers.
- Thanks to superior design and manufacturing method, corrosive substances affect water at minimum level.
- It is affected at the lowest level by construction providing equal expansion on all surfaces balancing heat transfer and by sheet deformations caused by thermic tensions.
- By providing on-site manufacturing flexibility, it can be inserted easily into narrow spaces.
- Burnt gases cycling within the boiler in appropriate angles and speeds are discharged from the funnel and sheet deformation can be prevented as a conclusion of acid corrosion in the boiler.
- Bright flame occurring in combustion chamber where intensive combustion with three transitions occurs is conveyed to water through "radiation heat transfer".
- Due to being three transitional of the boiler, counter pressure value in the boiler is very low and this means less power consumption in burner
- Design and manufacturing can be performed up to 40.000 Kcal / h – 10.000.000 Kcal / h.
- Boilers have fire-smoke pipes and the boiler pipes are welded to the mirrors.
- Thanks to high design and manufacturing technology, it runs very silent and efficient.
- Front furnace coupled has been performed optionally at different capacities, solid fuel can be burnt and capacity increase can be done.
- It can be remote wireless controlled (optionally).



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|-------------------------------|--|------------------------|---------------------|
| 1. Filling-discharging nozzle | 6. Front smoke boxes | 10. Front smoke boxes | 15. Explosive Cover |
| 2. Burner flange | 7. Thermometer and hydrometer connection nozzles | 11. Smoke Channel | 16. Chimney Clapper |
| 3. Flare peep cover | 8. Transport ring | 12. Safety input | |
| 4. Ground Anchor Profile | 9. Safety output | 13. Hot water recycles | |
| 5. Hot water outlet | | 14. Cleaning cover | |

TECHNICAL DIMENSIONS OF ASSF LIQUID GAS FUEL CYLINDRICAL SCOTCH TYPE THREE-PASS HEATING BOILERS

| BOILER TYPE | UNIT | ASSF 60 | ASSF 80 | ASSF 100 | ASSF 120 | ASSF 150 | ASSF 200 | ASSF 250 | ASSF 300 | ASSF 350 | ASSF 400 | ASSF 450 |
|----------------------|--------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| Capacity | Kcal/h | 60.000 | 80.000 | 100.000 | 120.000 | 150.000 | 200.000 | 250.000 | 300.000 | 350.000 | 400.000 | 450.000 |
| Capacity | kW | 70 | 93 | 116 | 140 | 174 | 233 | 291 | 349 | 407 | 465 | 523 |
| Width | Ømm | 1.100 | 1.100 | 1.100 | 1.200 | 1.100 | 1.350 | 1.350 | 1.450 | 1.500 | 1.580 | 1.600 |
| Length | mm | 1.650 | 1.700 | 1.950 | 2.000 | 2.380 | 2.600 | 2.600 | 2.800 | 2.850 | 2.850 | 3.000 |
| Height | mm | 1.300 | 1.320 | 1.335 | 1.490 | 1.370 | 1.685 | 1.685 | 1.785 | 1.835 | 1.910 | 1.935 |
| Funnel axis height | mm | 1.040 | 1.020 | 1.040 | 1.180 | 1.080 | 1.325 | 1.350 | 1.415 | 1.415 | 1.510 | 1.525 |
| Base width x length | mm | 1200x1750 | 1200x1800 | 2200x2050 | 1300x2100 | 1200x2480 | 1450x2700 | 1450x2700 | 1550x2900 | 1600x2950 | 1680x2950 | 1700x3100 |
| Heater Stream/return | PN6 | 2" | 2" | 2" | Ø65 | Ø 65 | Ø 65 | Ø 80 | Ø 80 | Ø80 | Ø100 | Ø100 |
| Security stream | PN6 | 1 1/4" | 1 1/4" | 1 1/4" | 1 1/4" | 1 1/4" | 1 1/2" | 1 1/2" | 1 1/2" | 2" | 2" | 2" |
| Security return | PN6 | 1" | 1" | 1" | 1" | 1" | 1 1/4" | 1 1/4" | 1 1/4" | 1 1/2" | 1 1/2" | 1 1/2" |
| Funnel exit | Ø mm | 150 | 150 | 200 | 200 | 200 | 300 | 300 | 300 | 300 | 350 | 400 |
| Width | Kg | 580 | 613 | 740 | 865 | 955 | 1.308 | 1.398 | 1.668 | 1.824 | 2.121 | 2.248 |
| Water volume | Lt | 546 | 530 | 714 | 863 | 935 | 1.584 | 1.482 | 1.866 | 2.076 | 2.324 | 2.576 |
| Counter pressure | mbar | 0,6 | 0,7 | 1,3 | 2 | 2,1 | 2,3 | 2,6 | 2,7 | 2,9 | 3 | 3,5 |

| BOILER TYPE | UNIT | ASSF 500 | ASSF 600 | ASSF 700 | ASSF 800 | ASSF 1000 | ASSF 1200 | ASSF 1250 | ASSF 1500 | ASSF 2000 | ASSF 3000 | ASSF 4000 |
|----------------------|--------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| Capacity | Kcal/h | 500.000 | 600.000 | 700.000 | 800.000 | 1.000.000 | 1.200.000 | 1.250.000 | 1.500.000 | 2.000.000 | 3.000.000 | 4.000.000 |
| Capacity | kW | 581 | 698 | 814 | 930 | 1.163 | 1.390 | 1.453 | 1.744 | 2.326 | 3.488 | 4.651 |
| Width | Ømm | 1.800 | 1.700 | 1.830 | 1.900 | 1.950 | 1.950 | 1.950 | 2.100 | 2.200 | 2.460 | 2.700 |
| Length | mm | 3000 | 3.300 | 3.600 | 3.600 | 4.150 | 4.650 | 4.400 | 4.200 | 4.700 | 6.050 | 6.150 |
| Height | mm | 2.135 | 2.030 | 2.170 | 2.235 | 2.295 | 2.340 | 2.345 | 2.440 | 2.585 | 2.860 | 3.110 |
| Funnel axis height | mm | 1.755 | 1.595 | 1.695 | 1.730 | 1.755 | 1.845 | 1.785 | 1.905 | 1.875 | 2.175 | 2.380 |
| Base width x length | mm | 1900x3100 | 1800x3400 | 1930x3700 | 2000x3700 | 2050x4250 | 2050x4750 | 2050x4500 | 2200x4300 | 2300x4800 | 2560x6150 | 1850x6250 |
| Heater Stream/return | PN6 | Ø 100 | Ø 125 | Ø 125 | Ø 125 | Ø 125 | Ø 150 | Ø 150 | Ø 150 | Ø 200 | Ø 200 | Ø 250 |
| Security stream | PN6 | 2" | 2" | Ø 65 | Ø 65 | Ø 65 | Ø 65 | Ø 80 | Ø 80 | Ø 80 | Ø 100 | Ø 100 |
| Security return | PN6 | 1 1/2" | 1 1/2" | 2" | 2" | 2" | 2" | Ø 65 | Ø 65 | Ø 65 | Ø 80 | Ø 80 |
| Funnel exit | Ø mm | 400 | 400 | 450 | 500 | 600 | 600 | 650 | 700 | 800 | 800 | 800 |
| Width | Kg | 2.548 | 2.774 | 3.260 | 3.570 | 4.263 | 5.136 | 5.350 | 6.395 | 8.525 | 12.800 | 17.067 |
| Water volume | Lt | 3.417 | 3.278 | 4.347 | 4.700 | 5.551 | 6.246 | 6.940 | 8.327 | 11.100 | 16.650 | 22.199 |
| Counter pressure | mbar | 4 | 4,3 | 4,4 | 4,4 | 4,5 | 5 | 5,3 | 5,6 | 5,8 | 6,2 | 6,4 |

- Base width must be accepted minimum as 100 mm.
- The right of making change in technical issues is reserved by our firm.
- Special designs and manufacturing can be done.