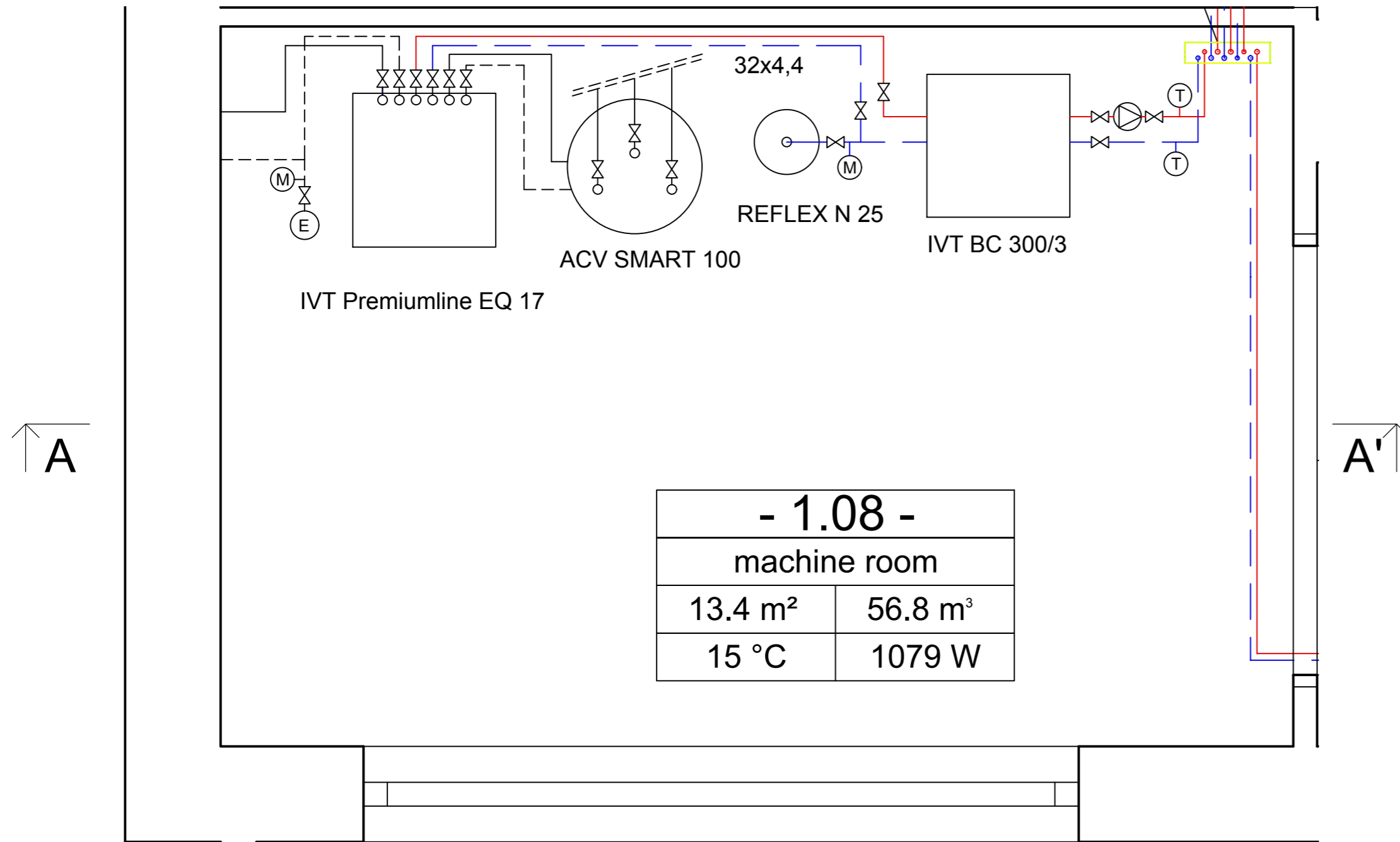


# Plan of machine room (1.08)



<b>- 1.08 -</b>	
machine room	
13.4 m <sup>2</sup>	56.8 m <sup>3</sup>
15 °C	1079 W

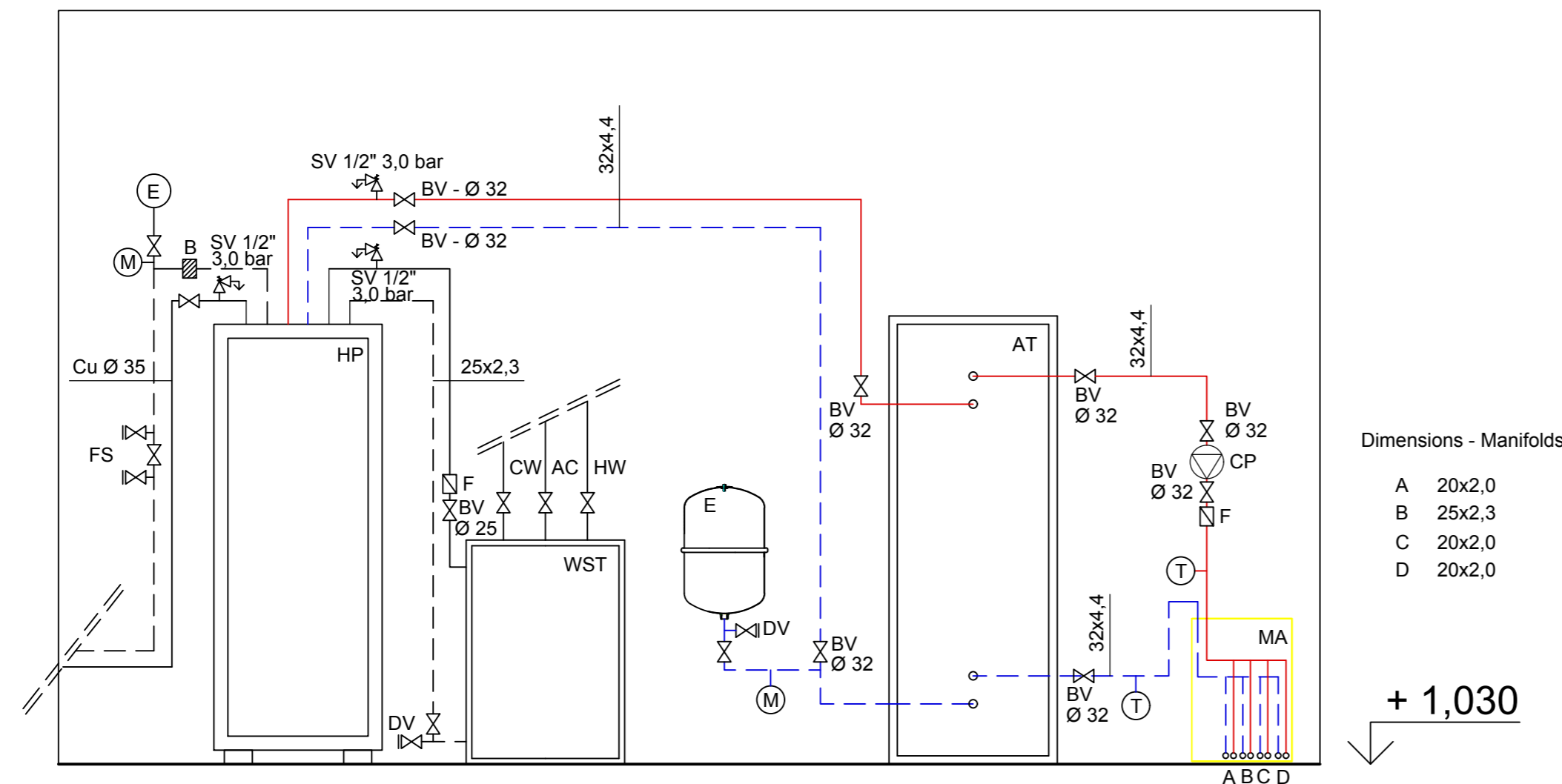
IVT Premiumline EQ 17	
Energy class	A ++
Output (0°C/45°C)	16,1 kW
Weight	192 kg
Dimensions	600x645x1520 mm

ACV SMART 100	
Total capacity	105 l
Insulation	50 mm polyurethane
Heat exchange surface	1,03 m <sup>2</sup>
Dimensions	Ø 565 mm, 800 mm

IVT BC 300/3	
Volume	300 l
Weight	77 kg
Dimensions	600x600x1600mm

REFLEX N 25	
Nominal volume	25 l
Useful volume	22,5 l
Weight	4,3 kg
Dimensions	Ø 308 mm, 481 mm

## Section AA'



Dimensions - Manifolds

- A 20x2,0
- B 25x2,3
- C 20x2,0
- D 20x2,0

### LEGEND

- FS Filling system
- SV Safety valve
- HP Heat pump
- CP Circulation pump
- M Pressure gauge
- T Thermometer
- E Expansion vessel
- AT Accumulation tank
- WST Water storage tank
- DV Dump valve
- F Filter
- HW Hot water outlet connection
- CW Cold water inlet connection
- AC Auxiliary connection DHW
- B Filtrball
- MA Manifolds
- BV Ball shut off valve

### Description of machine room

Heat pump	IVT Premiumline EQ 17
Water storage tank	ACV SMART 100
Accumulation tank	IVT BC 300/3
Expansion vessel	REFLEX N 25
Manifolds	REHAU Stainless steel manifolds 5
Circulation pump	GRUNDFOS ALPHA 2 XX-60

± 0,000 = 153 m.a.s.l.

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Bachelor project - Department of Microenvironmental and Building Services Engineering			
Name <b>Heating system with renewable energy sources</b>		Date 5/2016	
		Scale M 1:20	
		Number 5	
Attachment <b>HEATING SYSTEM - MACHINE ROOM</b>		Consultant	