

RF

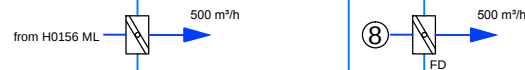
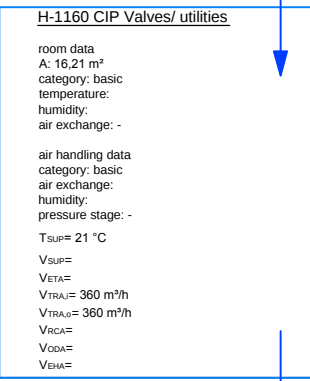
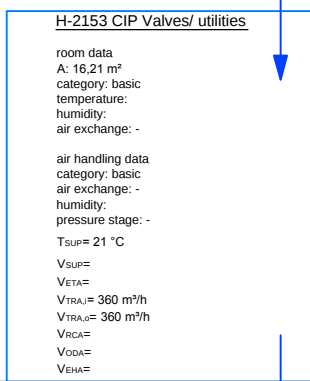
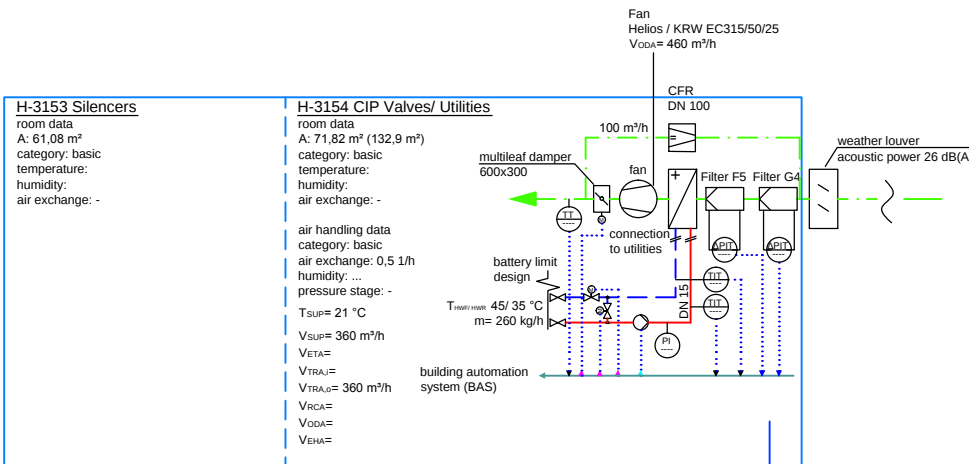
3F

2F

1F

GF

BM



H-1158 -Stairs 3

room data
A: 16.03 m²
category: basic
temperature:
humidity:
air exchange: -

air handling data
category: basic
air exchange: -
humidity:
pressure stage: 5 1/h
T_{sup}= 21 °C
V_{sup}=
V_{sub}=
V_{tot}= 1000 m³/h
V_{ext}= 1000 m³/h
V_{int}=
V_{ext}=
V_{int}=

H-1159 -Stairs 4

room data
A: 15.03 m²
category: basic
temperature:
humidity:
air exchange: -

air handling data
category: basic
air exchange: -
humidity:
pressure stage: 5 1/h
T_{sup}= 21 °C
V_{sup}=
V_{sub}= 500 m³/h
V_{tot}= 500 m³/h
V_{ext}=
V_{int}=
V_{ext}=

H-0163 Filter Waste

room data
A: 40.23 m²
category: basic
temperature:
humidity:
air exchange: -

air handling data
category: basic
air exchange: -
humidity:
pressure stage: -
T_{sup}= 21 °C
V_{sup}=
V_{sub}= 1360 m³/h
V_{tot}=
V_{ext}=
V_{int}= 1860 m³/h

H-0153 CIP Valves/ utilities

room data
A: 22.73 m² (62.96 m²)
category: basic
temperature:
humidity:
air exchange: -

air handling data
category: basic
air exchange: -
humidity:
pressure stage: -
T_{sup}= 21 °C
V_{sup}=
V_{sub}= 1360 m³/h
V_{tot}=
V_{ext}=
V_{int}= 1860 m³/h

Fan
Helios / SKRW EC 355/60/30
acoustic power (in 4m distance)
51 dB(A)
V_{EHA} 1860 m³/h

SL
600x300
L=1000

multileaf damper
600x300

external weather louver
B01 600x400
V_{EHA} 1860 m³/h
acoustic power 42 dB(A)

building automation
system (BAS)

H-K160 MCC 09

room data
A: 51.34 m²
category: basic
temperature: 15/ 30°C
humidity: nc
air exchange: -

air handling data
category: basic
air exchange: 0.5 1/h
humidity:
pressure stage: -
T_{sup}= 21 °C
V_{sup}=
V_{sub}= 1000 m³/h
V_{tot}= 1000 m³/h
V_{ext}=
V_{int}=
V_{ext}=

H-K155 Corridor

room data
A: 56.04 m²
category: basic
temperature: 15/ 30°C
humidity: nc
air exchange: -

air handling data
category: basic
air exchange: 0.5 1/h
humidity:
pressure stage: -
T_{sup}= 21 °C
V_{sup}=
V_{sub}= 1000 m³/h
V_{tot}= 1000 m³/h
V_{ext}=
V_{int}=
V_{ext}=

**H-K151 CIP/ Waste
Water Tank**

room data
A: 54.76 m²
category: basic
temperature: 15/ 30°C
humidity: nc
air exchange: -

air handling data
category: basic
air exchange: 0.5 1/h
humidity:
pressure stage: -
T_{sup}= 21 °C
V_{sup}=
V_{sub}= 1000 m³/h
V_{tot}= 1000 m³/h
V_{ext}=
V_{int}=
V_{ext}=

H-K153 CIP Valves/ Utilities

room data
A: 19.24 m²
category: basic
temperature:
humidity: nc
air exchange: -

air handling data
category: basic
air exchange: 0.5 1/h
humidity:
pressure stage: -
T_{sup}= 21 °C
V_{sup}=
V_{sub}= 1000 m³/h
V_{tot}= 1000 m³/h
V_{ext}=
V_{int}=
V_{ext}=

description:

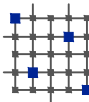
- chilled water forward flow
- chilled water return
- heating forward flow
- heating return
- building automation system (BAS)
- outdoor air
- exhaust air
- supply air
- transferred air

- extract air outlet
- supply air outlet
- tube outlet
- mousehole
- louver
- fire damper (FD)
- constant volume flow regulator (CFR)
- fan
- droplet separator
- variable volume flow regulator (VFR)
- damper flap (DF)
- filter
- silencer (SL)
- pre-heater (PH)
- external louver
- shut-off-valve
- balancing valve
- pump
- check valve (CV)
- deflector hood
- motor actuator
- three-way-valve
- instrument connected to BAS with a local indication
- instrument connected to BAS without a local indication
- instrument with local indication not connected to BAS
- temperature
- pressure
- humidity
- differential pressure
- frost protection
- smoke
- leakage monitoring
- analog input
- analog output
- digital input
- digital output

number contained in plan:

- plan P&ID's AHU5/ AHU8
- plan P&ID's AHU5/ AHU8
- plan P&ID's AHU5/ AHU8
- plan P&ID's AHU5/ AHU8
- plan P&ID's AHU5/ AHU8
- plan P&ID's AHU1+2/ CIP

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A	10.08.2015	adaptation symbolism according nestlé standard	SHe
index	date	changed	drawn by

cad design: \CAD\						
this plan replaced plan number: -						
builder:	engineering consultant:					
Detailed Engineering Design Freeze for preparation of technical specifications for tendering approved by discipline responsible DateRoel EngelenJens Hohenacker	liebert INGENIEURBÜRO FÜR VERSORGUNGSTECHNIK Hohenstraße 17 Tel. +49 (0)771/1589790 e-Mail: info@liebert-ing.de 78183 Hüfingen Fax +49 (0)771/15897933 Homepage: http://www.liebert-ing.de					
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project status: detail-design	reference high: -					
project: 	title: P&ID's CIP/ Utilities schematic detail-design					
agent: ---	drawn by: ---	date: 26.06.2015	scale: 1 : paper-size: A2			
plannumber:						
753 1779 --- 05C 0200 -A --						
project	building number	section	plan type	plan number	index	grid square