

A low-angle, upward-looking photograph of two tall, cylindrical ventilation towers. The towers are made of a light-colored, possibly metallic, material with a series of horizontal louvers near the top. They are positioned in front of a modern building with a glass and metal facade. The sky is blue with scattered white clouds. The overall composition is clean and architectural.

VENTILATION TOWERS

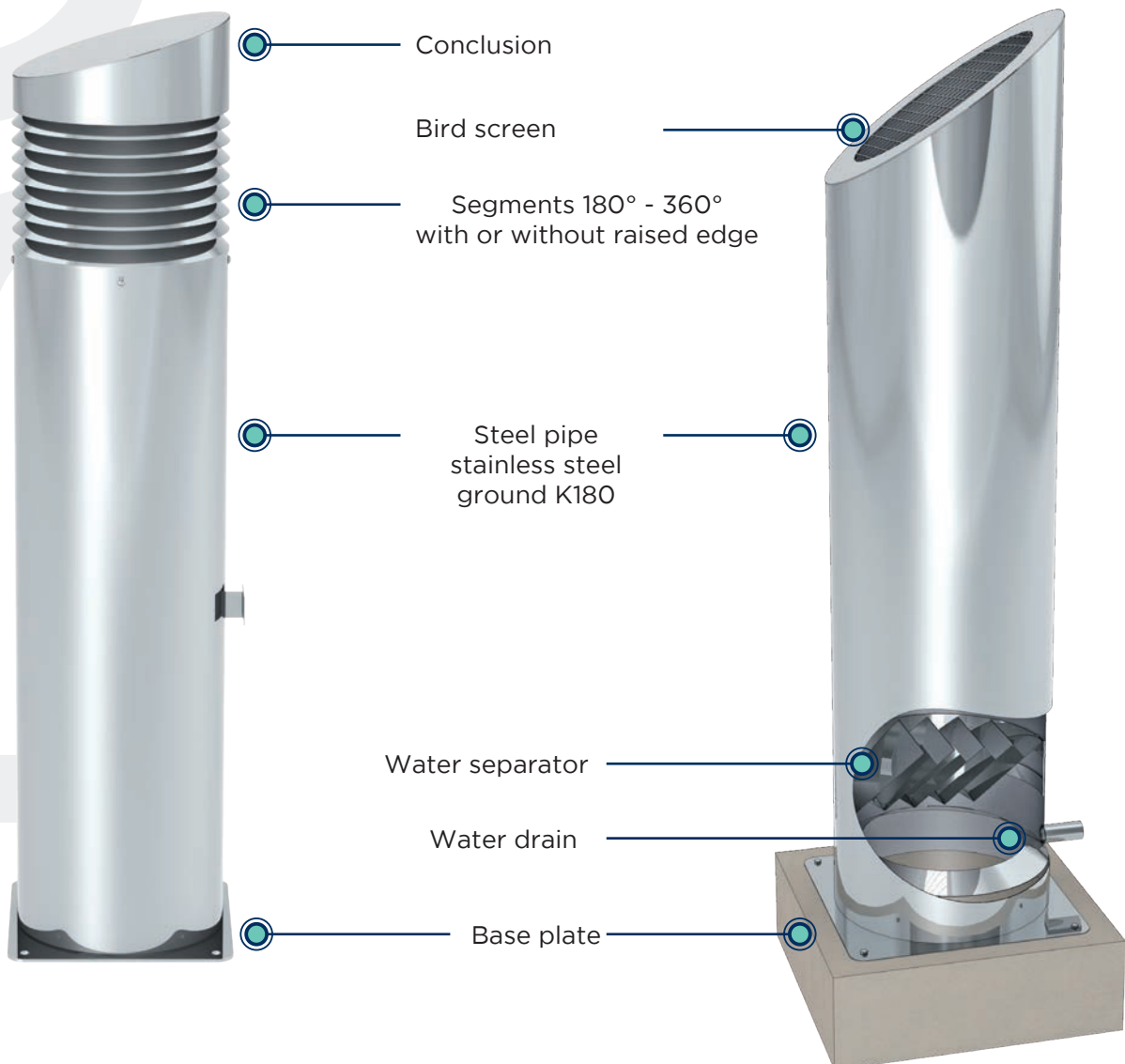
System FSC

FSC (VENTILATION TOWERS)

Free-standing, single-walled supply air and discharge air chimney. Corrosion addition or paint coating is also resistant to discharge air. Inexpensive alternatives to the FSA for non-hazardous material discharge air.

INTAKE TOWER

DISCHARGE TOWER



USE

- > The FSC series is used in air conditioning and ventilation technology

STRUCTURE

- > In FSC, the visible pipe is the static supporting system and also the media-carrying system that is usually not insulated
- > Depending on requirement, thicknesses of above 1.5 mm for stainless steel and 4 mm for carbon steel are manufactured

FIXTURES

- > Segment hoods, steam arcs, acceleration jets or deflector hood

SUPPLEMENTS

- > A water separator that cannot be seen from outside can be built into the supporting pipe. The benefit is that the resistance coefficient for the Jeremias water separator is significantly lower than that of a deflector hood; the function is identical

| | |
|------------------------------|--|
| SERIES | FSC |
| STATIC SYSTEM | Foundation basket or building Connection |
| SUPPORTING ELEMENT | Single-walled exhaust line |
| STRUCTURE | Single-shell |
| INTERNAL PIPE | Possible for discharge air |
| INTERNAL PIPE DAMPING | Insulation with Armaflex is possible |
| REAR VENTILATION | - |
| SUPPORTING PIPE | 1.4301, 1.4571, St 37-2 |
| SURFACE VISUAL | Facet grinding for stainless steel Steel, galvanised Steel, coated (Cladding) |
| USE | Supply air, discharge air |



**CAMBRILLS,
SPAIN**



HEIGHT 18 m
DIAMETER 2760 mm
SURFACE: matte, with ground welded seams

One-piece transport to Spain. Assembly with 3.5 m high segment-hoods.

**BÜNDE,
GERMANY**



HEIGHT 3,2 m
DIAMETER 2 x 1600 / 6 x 20000 mm
SURFACE: ground

8 FSC for exhaust air and supply of a metal process.

**FRANKFURT,
GERMANY**



HEIGHT 8.2 m/ 4.8 m
DIAMETER 1600/1300 mm
SURFACE: ground

Discharge air and supply air in the Frankfurt University clinic

**KÜNZELSAU,
GERMANY**



HEIGHT 2 x 11 m
DIAMETER 1000 mm
SURFACE: glass-pearl blasted

segment hood 360°, flush on supporting pipe. Adjacent to supply air connection from below.

**NÜRBURGRING,
GERMANY**



HEIGHT 5 x 4,3 m
DIAMETER 2250 mm
SURFACE: ground

5 supply air towers for the Dorint hotel at the Nürburgring

**MUTLANGEN,
GERMANY**



HEIGHT 2 x 11 m
DIAMETER 1000 mm
SURFACE: ground

Architecturally adapted discharge-/supply air towers with visible, interior water separator

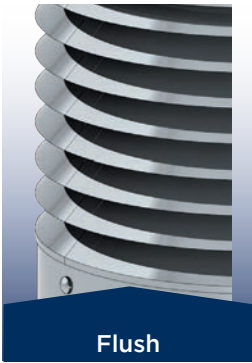
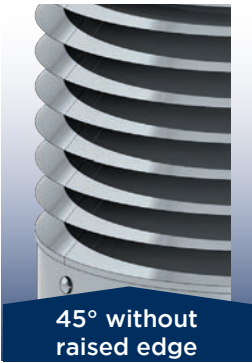
INTAKE TOWERS OVERVIEW



SEGMENT HEAD VARIATIONS



LAMINATE FORM

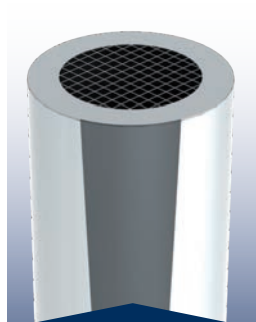


LAMINATE CONFIGURATION



OUTLET TOWER OVERVIEW

CONCLUSION



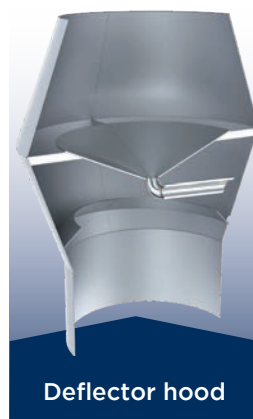
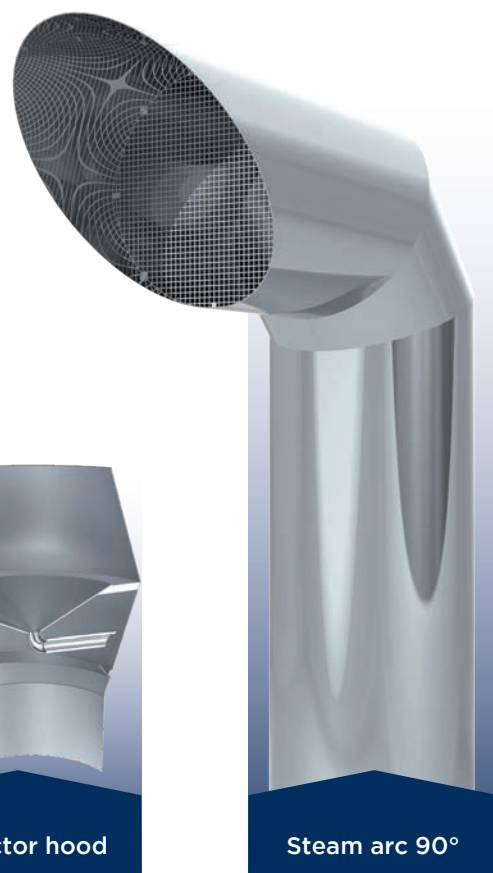
Directly with
bird screen



Diagonal cut 3-45°
with bird screen



WATER SEPARATOR

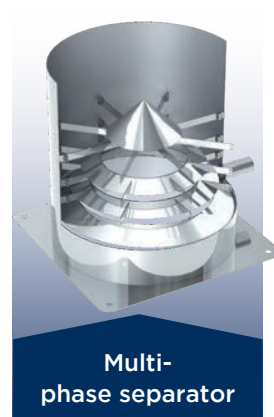


Deflector hood

Steam arc 90°



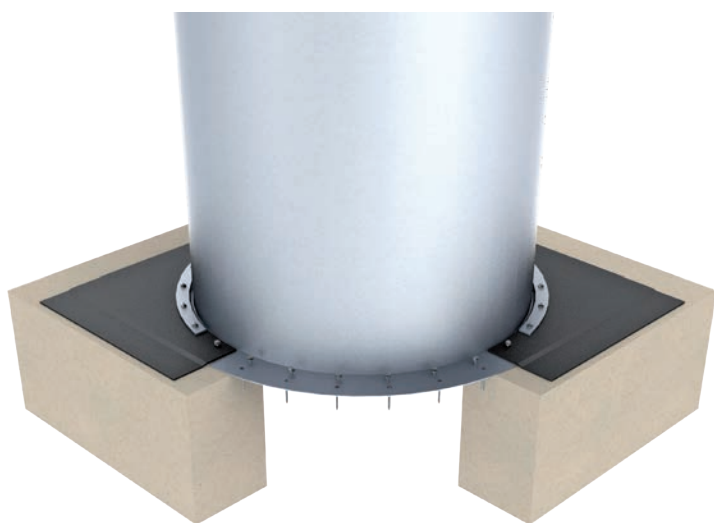
Segment separator
on base



Multi-
phase separator

SEALING

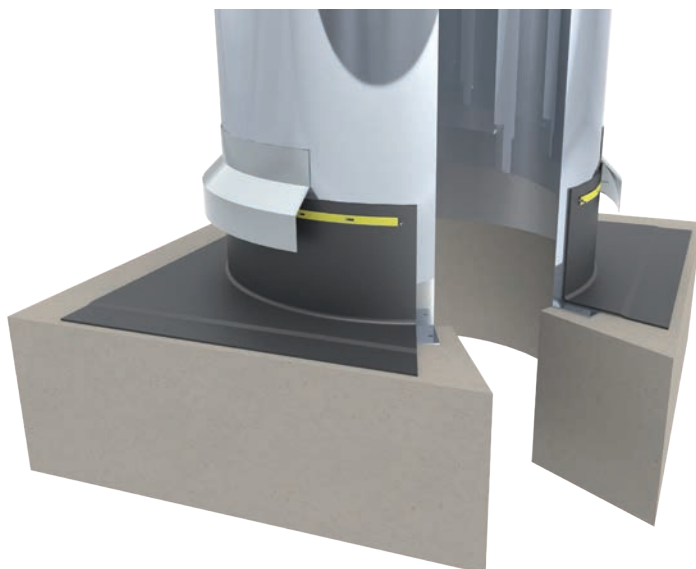
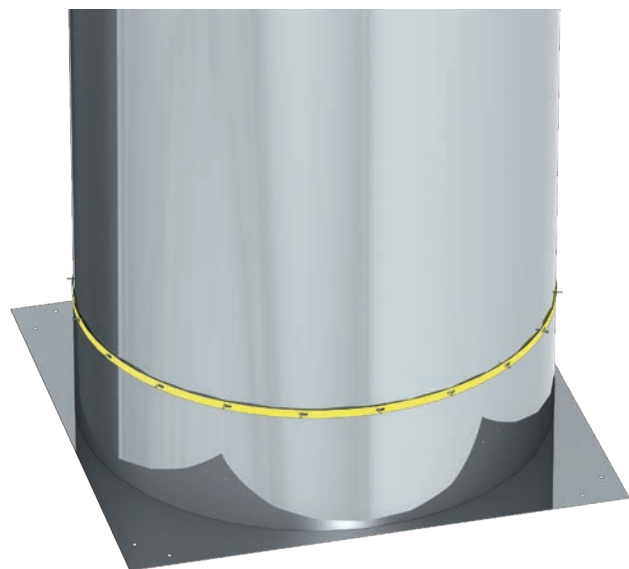
To add the ventilation tower to the substrate and waterproofed it usually needs to be incorporated into the roof cladding. In addition, there are various options that can be designed depending on the substrate / roof construction



Clamp flange for affixing the roof cladding on the bottom flange



Clamp ring for affixing the roof cladding underneath the weather protection cover



INTAKE TOWERS

CUSTOMER DATA

Customer name _____

Contact person _____

Phone _____

Email _____

DATA

Installation location _____

Air power _____ m³/h

Air speed _____ m/s

Sound level _____ dB(A)

Pressure loss max. _____ Pa

Temperature/medium _____ °C / _____

Diameter _____ mm ☐ Jeremias design

Wall thickness _____ mm ☐ Jeremias design

Total height _____ mm

Segment hood height _____ mm ☐ Jeremias design

Standing pipe height _____ mm

Material ☐ 1.4301 ☐ 1.4571

☐ Other _____

Fittings ☐ Foundation basket

☐ Foundation basket with sheathing pipe

☐ Foundation bolts

☐ Mount

☐ According to static

Surface ☐ Ground K180

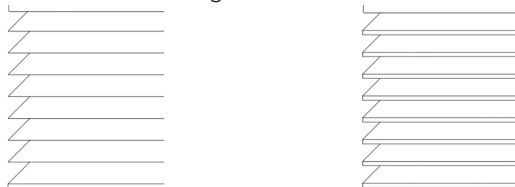
☐ Matte

☐ Glass-pearl blasted

☐ Other _____

Segment hood ☐ 180° ☐ 360°

Segment hood design ☐ Without raised edge ☐ External raised edge

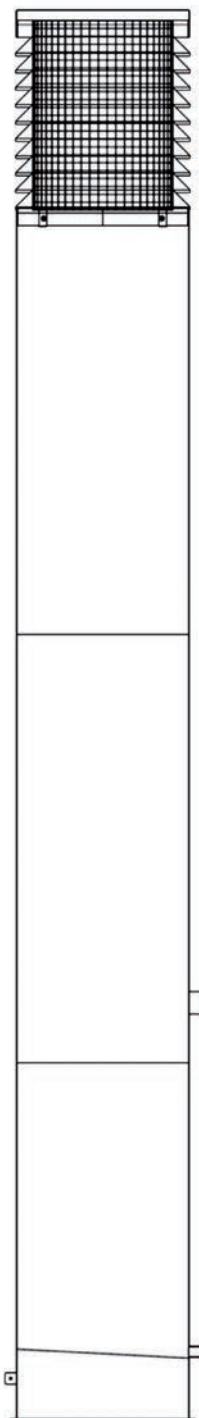


Tower roof incline ☐ 0° ☐ 15° ☐ 30° ☐ Cone roof

Material base point ☐ Such as standing pipe (VA) ☐ Ground/coated steel

Connection ☐ Sideways 45° ☐ Sideways 87 - 90° ☐ From below

Cleaning opening ☐ Size corresponding diameter Standard Jeremias ☐ Size _____ mm



☐ Sealing/clamping fitting ☐ Weather protection cover in stainless steel ☐ Transport ☐ Assembly incl. crane

Planned execution time _____

COMBINATION TOWERS

CUSTOMER DATA

Customer name _____

Contact person _____

Phone _____

Email _____

DATA

Installation location _____

Air power intake _____ m³/h

Air power steam off _____ m³/h

Air speed _____ m/s

Sound level _____ dB(A)

Pressure loss max. _____ Pa

Temperature / medium _____ °C / _____

EXTERNAL PART (INTAKE PIPE WITH SEGMENT HOOD)

Diameter _____ mm ☐ Jeremias design

Wall thickness _____ mm ☐ Jeremias design

Total height _____ mm

Segment hood height _____ mm ☐ Jeremias design

Standing pipe height _____ mm

Material ☐ 1.4301 ☐ 1.4571

☐ Other _____

Fittings ☐ Foundation basket

☐ Foundation basket with sheathing pipe

☐ Foundation bolts

☐ Mount

☐ According to static

Surface ☐ Ground K180

☐ Matte

☐ Glass-pearl blasted

☐ Other _____

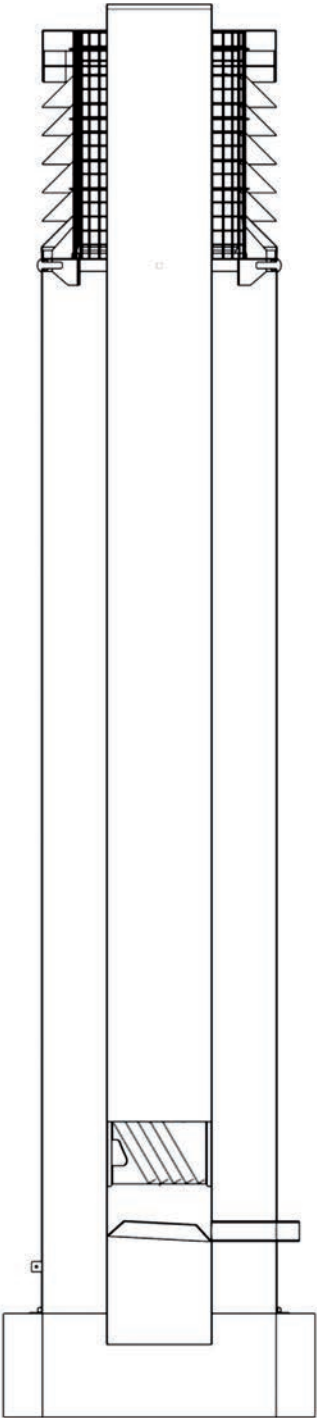
Segment hood ☐ 180° ☐ 360°

Segment hood design ☐ Without raised edge ☐ External raised edge

☐ Such as standing pipe (VA) ☐ Ground steel

Connection ☐ Sideways 45° ☐ Sideways 87 - 90° ☐ From below

Cleaning opening ☐ Size corresponding diameter Standard Jeremias ☐ Size _____ mm



☐ Sealing/clamping fixture ☐ Weather protection cover in stainless steel

COMBINATION TOWERS

INTERIOR PART (STEAM OFF PIPE WITH SEGMENT SEPARATOR)

Diameter _____ mm ☐ Jeremias design

Wall thickness _____ mm ☐ Jeremias design

Total height _____ mm

Material ☐ 1.4301 ☐ 1.4571

☐ Other

Steam off opening ☐ Open steam off ☐ 90° steam arc

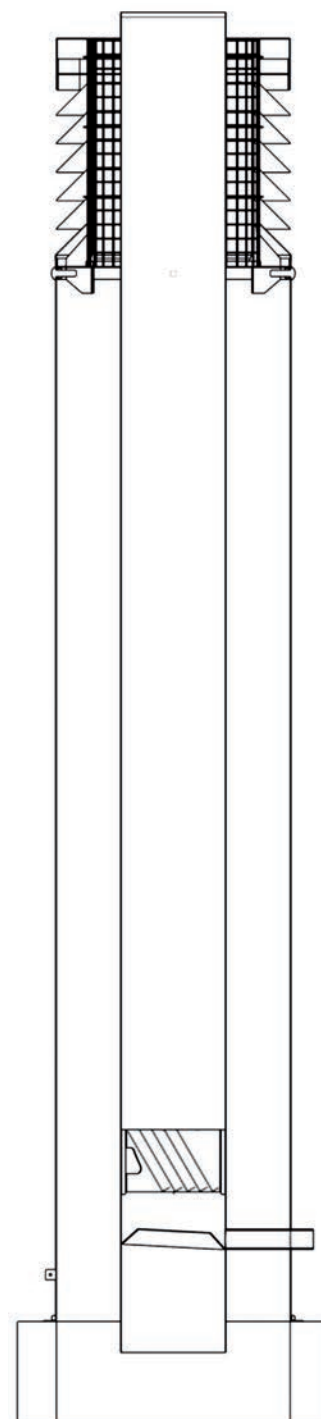
Connection ☐ Sideways 45° ☐ Sideways 87 - 90°

☐ From below

☐ Transport

☐ Assembly incl. crane

Planned execution time _____



DISCHARGE TOWERS

CUSTOMER DATA

Customer name _____

Contact person _____

Phone _____

Email _____

DATA

Installation location _____

Air power _____ m³/h

Air speed _____ m/s

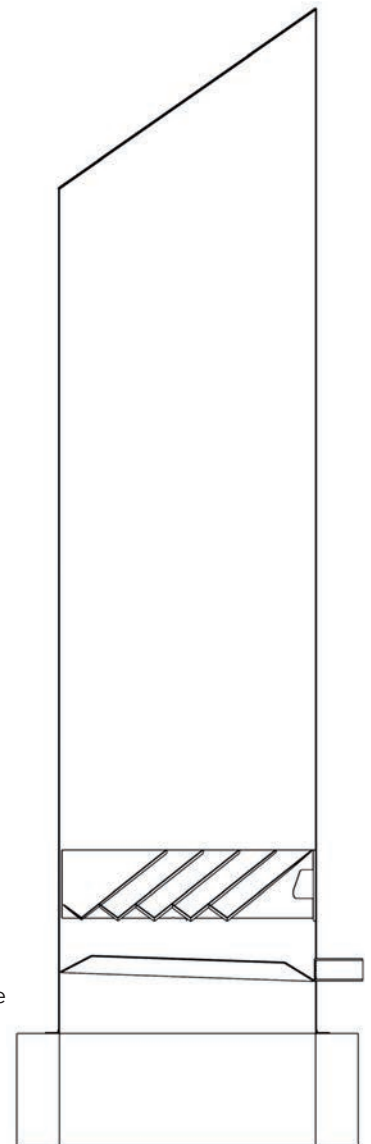
Sound level _____ dB(A)

Pressure loss max. _____ Pa

Temperature/medium _____ °C / _____

Total height _____ mm

- Material**
- ☐ 1.4301 ☐ 1.4571
- ☐ Other
- Fittings**
- ☐ Foundation basket
- ☐ Foundation basket with sheathing pipe
- ☐ Foundation bolts
- ☐ Mount
- ☐ according to static
- Surface**
- ☐ ground K180
- ☐ Matte
- ☐ Glass-pearl blasted
- ☐ Other
- Steam off opening**
- ☐ Open steam off
- ☐ 90° Steam arc
- ☐ Segment hood without function (blind segment)
- Design of blind segment**
- ☐ Without raised edge ☐ External raised e
- ☐ According to Jeremias - Standard
- Opening / Diagonal cut**
- ☐ 0° ☐ 15° ☐ 30° ☐ Cone roof
- Material base point**
- ☐ Such as standing pipe (VA) ☐ Ground/coated steel
- Connection**
- ☐ Sideways 45° ☐ Sideways 87 - 90° ☐ From below
- Cleaning opening**
- ☐ Size corresponding diameter Standard Jeremias Size _____ mm



- ☐ Sealing/clamping fitting
- ☐ Assembly incl. crane

- ☐ Weather protection cover in stainless steel
- ☐ Transport
- ☐ Planned execution time