TEMPLATE FOR
ENERGY OPTIMIZATION

Building & Industry
NOVENCO
SCHAKO Group

Date

Company

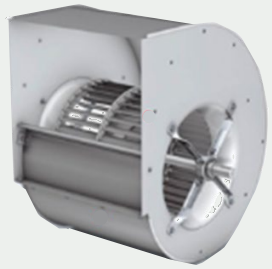
Project name

Unit

Manufacturer

Fan type

01



Centrifugal fan

F-IMPELLER

Select

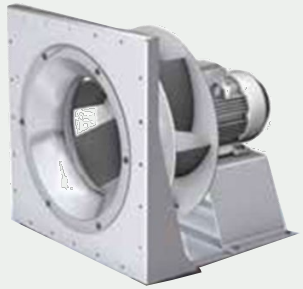
02

Centrifugal fan

B-IMPELLER

Select

03



Centrifugal plug fan

Select

Take a photo of the fan nameplate if possible

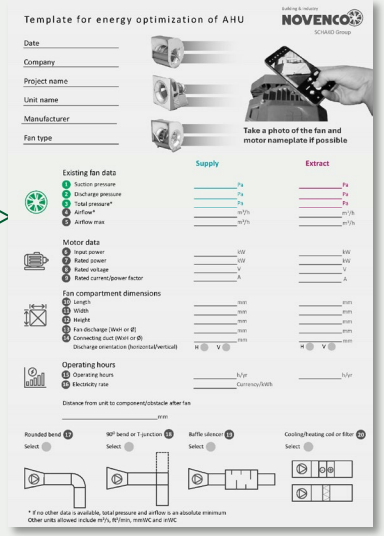
Building & Industry

NOVENCO

SCHAKO Group

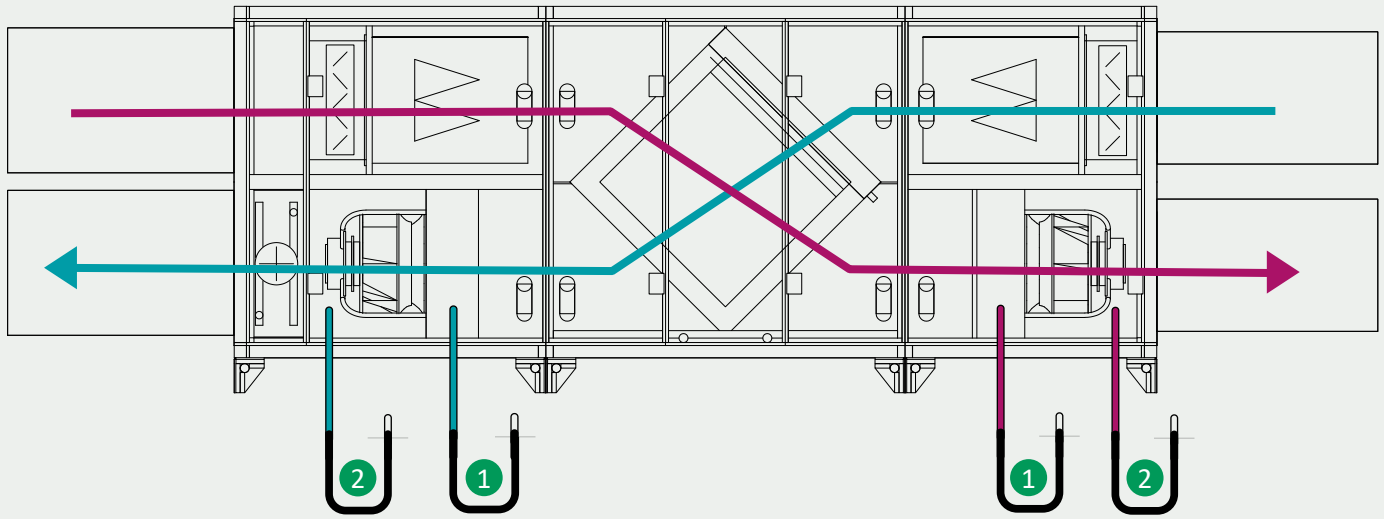
Unit type

Existing fan data	Supply	Extract
1 Suction pressure	Pa	Pa
2 Discharge pressure	Pa	Pa
3 Total pressure*	Pa	Pa
4 Airflow*	m³/h	m³/h
5 Airflow max	m³/h	m³/h



Appearance in terms of fan position, single/double deck, and configuration of components may differ depending on manufacturer and unit type

Existing fan data – centrifugal plug fans



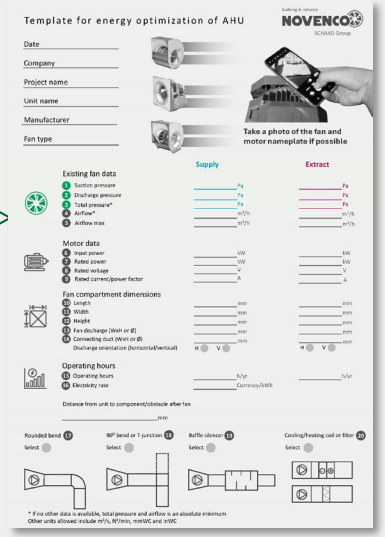
	Supply	Extract
1 Suction pressure	_____Pa	_____Pa
2 Discharge pressure	_____Pa	_____Pa

If no other data is available, total pressure and airflow is an absolute minimum
Other units allowed include m³/s, ft³/min, mmWC and inWC

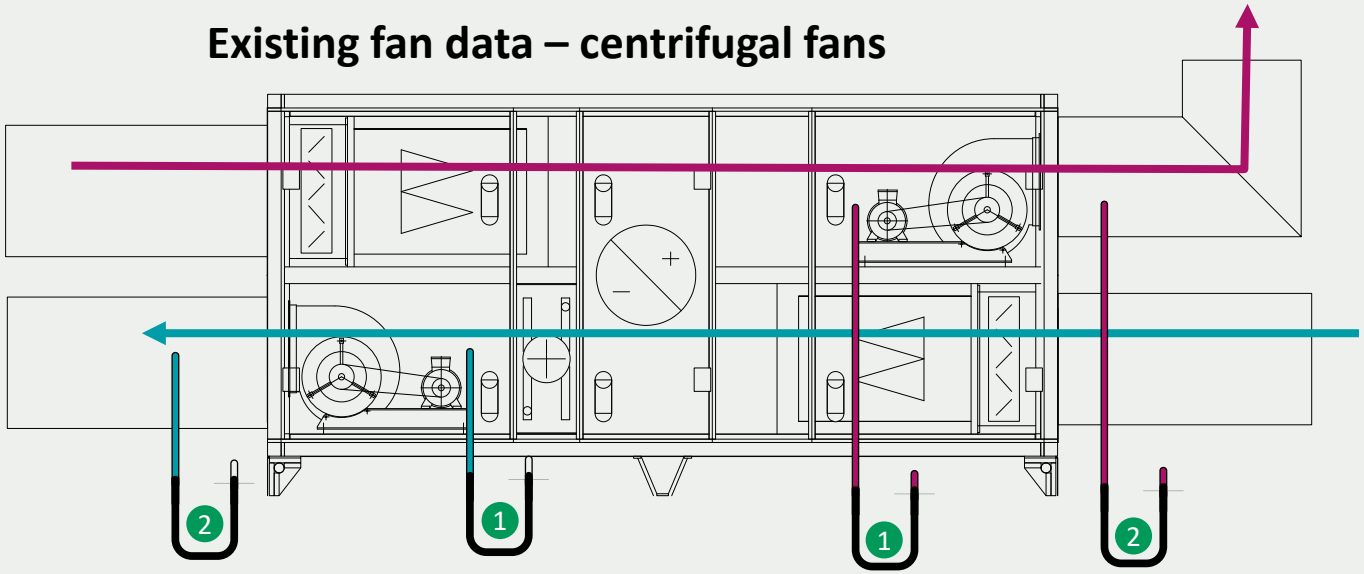
Building & Industry
NOVENCO
SCHAKO Group

Unit type

Existing fan data	Supply	Extract
1 Suction pressure	Pa	Pa
2 Discharge pressure	Pa	Pa
3 Total pressure*	Pa	Pa
4 Airflow*	m³/h	m³/h
5 Airflow max	m³/h	m³/h



Existing fan data – centrifugal fans

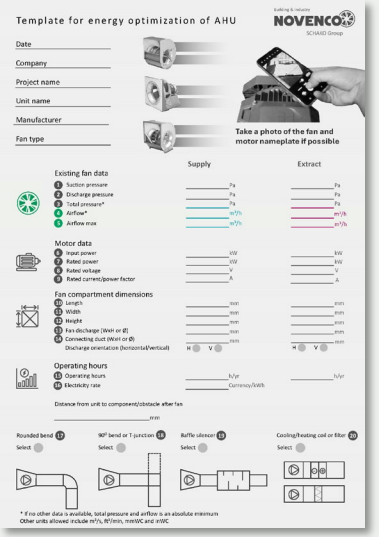


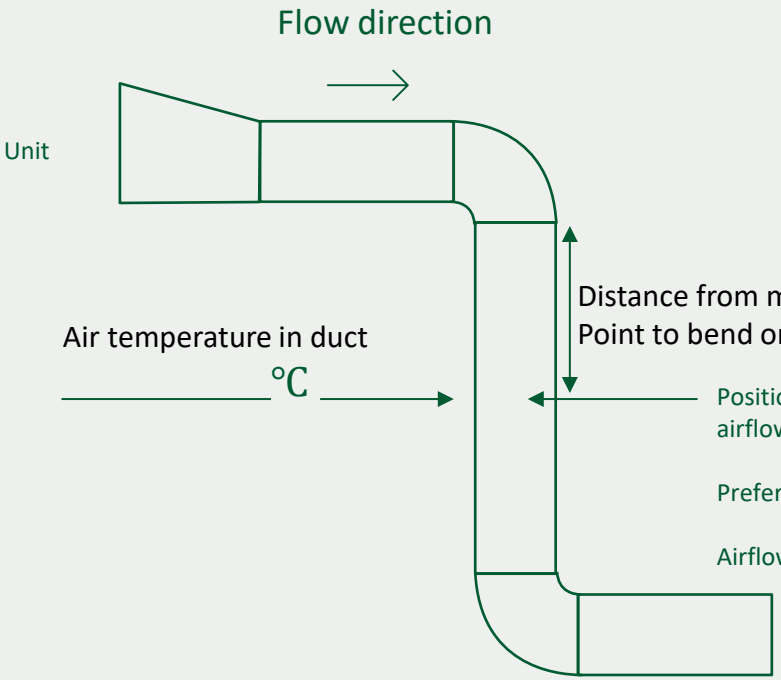
	Supply	Extract
1 Suction pressure	Pa	Pa
2 Discharge pressure	Pa	Pa

Building & Industry
NOVENCO
SCHAKO Group

Information on airflow

Existing fan data	Supply	Extract
1 Suction pressure	_____ Pa	_____ Pa
2 Discharge pressure	_____ Pa	_____ Pa
3 Total pressure*	_____ Pa	_____ Pa
4 Airflow*	_____ m³/h	_____ m³/h
5 Airflow max	_____ m³/h	_____ m³/h





Position of measuring cross section **approx. in the middle** of the longest possible stretch of ductwork – before the airflow is divided into any branches

Preferably 10 readings or more to increase overall accuracy

Airflow readings are to be carried out under the same operating conditions as the pressure readings

4 Measured airflow

_____ m³/h

Is the unit operating with constant or variable airflow?

Select Variable (VAV) ◯ Konstant (CAV) ◯

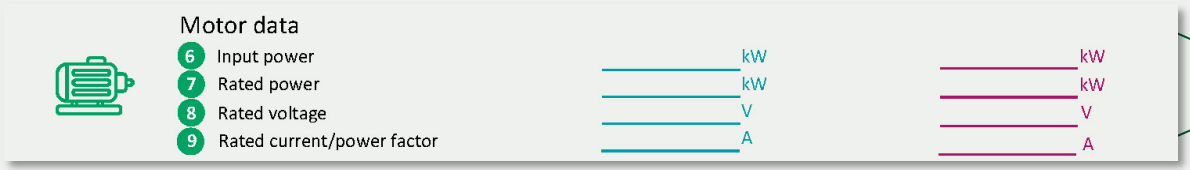
CUSTOMER REQUEST IF APPLICABLE:

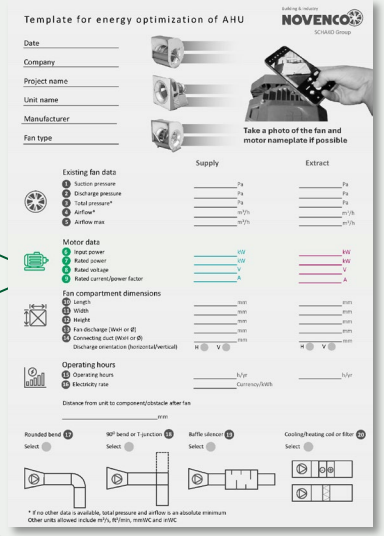
5 Max. airflow – in case of future expansions etc.

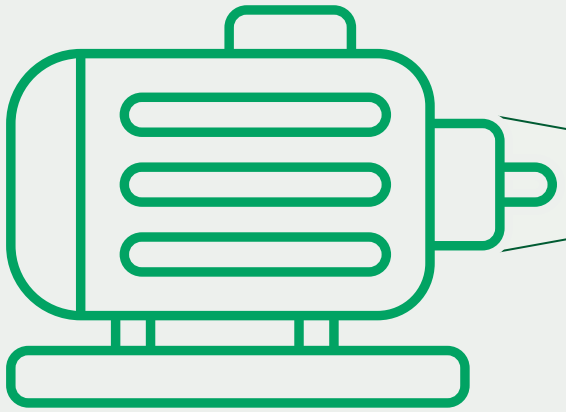
_____ m³/h

Building & Industry
NOVENCO
SCHAKO Group

Information on electric motor



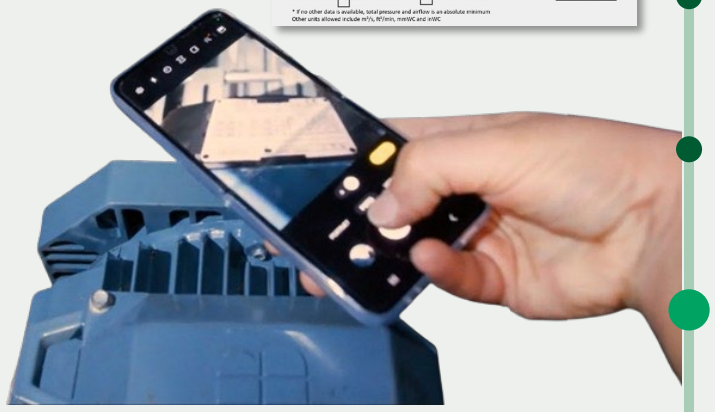




From nameplate:

Three-phase induction motor						
Frame MS2 801-2 B3			NO. 1405037211			
INS.CL. F	IP 55	S1	VSD Use Only		2014.5	
V △/Y	Hz	kW	rpm	A △/Y	cos(φ)	
230/400	50	0.75	2840	2.93/1.69	0.81	
276/480	60	0.9	3410	2.93/1.69	0.81	
IE2 - 77.4 (100%) - 77.5 (75%) - 74.6 (50%)						

8 9 7 9



Take a photo of the motor nameplate if possible

6 Input power (measured with 3-phase powermeter).
If a frequency drive is already installed, input power an is to be measured incl. the drive

_____ kW (may by read off the frequency drive)

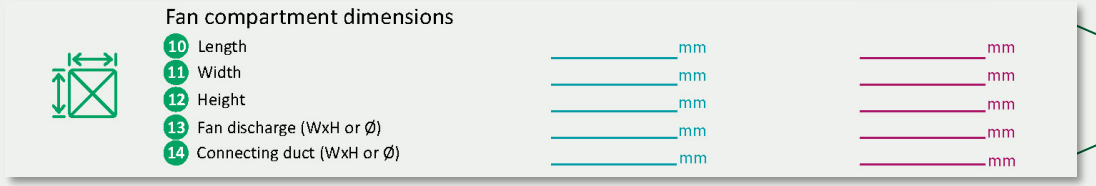
7 Rated power _____ kW

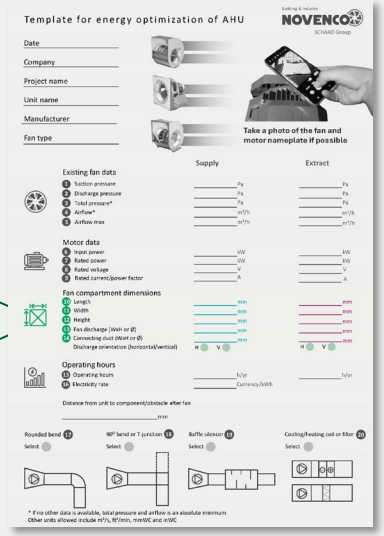
8 Rated voltage _____ △/Y V

9 Rated current/power factor _____ △/Y A

Building & Industry
NOVENCO
SCHAKO Group

Dimensions



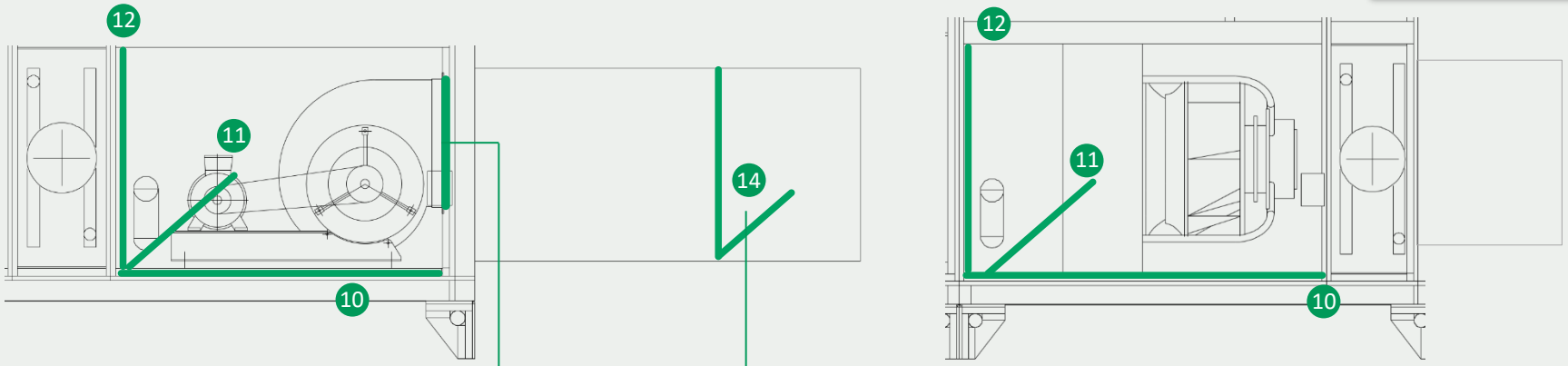


Fan section dimensions

10 Length _____ mm

11 Width _____ mm

12 Height _____ mm



Fan discharge orientation

Select

- Horizontal →
- Vertical ↑↓

14 Connecting duct (WxH or Ø) _____ mm

13 Fan outlet (WxH) _____ mm

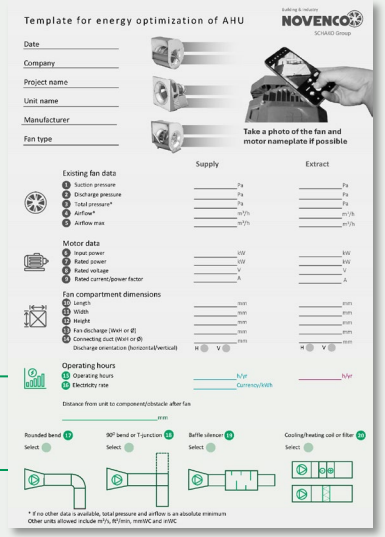
Building & Industry
NOVENCO
SCHAKO Group

Operating hours

Operating hours

15 Operating hours _____ h/yr _____ h/yr

16 Electricity rate _____ Currency/kWh



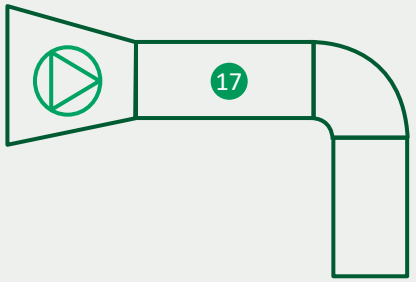
Components after the fan

Distance from fan to component

_____ mm

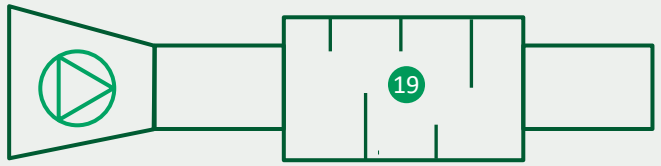
Rounded bend

Select



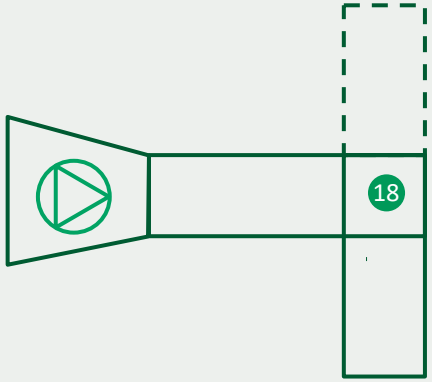
Baffle silencer

Select



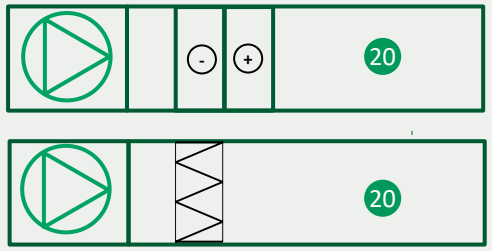
90° bend or T-junction

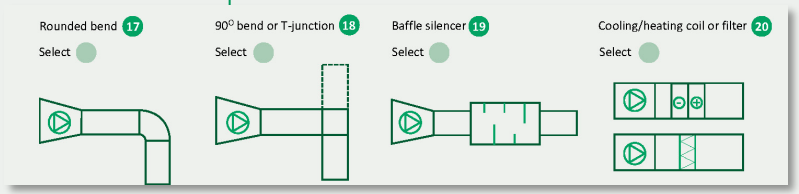
Select



Cooling/heating coil or filter

Select





Building & Industry

NOVENCO

SCHAKO Group