

# Resume - HCGB 31

## Indata

Flow	Inlet pressure	Outlet pressure	Temperature	Temp Cold Start Up	Density
4000 m3/h	0 Pa	400 Pa	20 °C	20 °C	1.294 Kg/Nm3

## General Conditions

Barom Pressure	760	mmHg
Elevation	0	m

## Selected fan

Type	HCGB	
Size	31	
Fan connection area	0.0788	m2
Pd	90	Pa
Accessories	0	Pa
Inlet connection	9	Pa
Outlet connection	90	Pa
Flow	4000	m3/h
Total pressure	499.2	Pa
Efficiency	61.15	%
	1.00	Kp
Power	1.21	Hp
Power at Cold Star Up	1.21	Hp
Throttle line	4.25	
Moment of inertia WR2	0.06	kgm2
Total wight	52	Kg
Speed	3082.5	rpm
Start torque		
At operation conditions	2.8	Nm
At 0 flow and 20Â° C	0.9	Nm

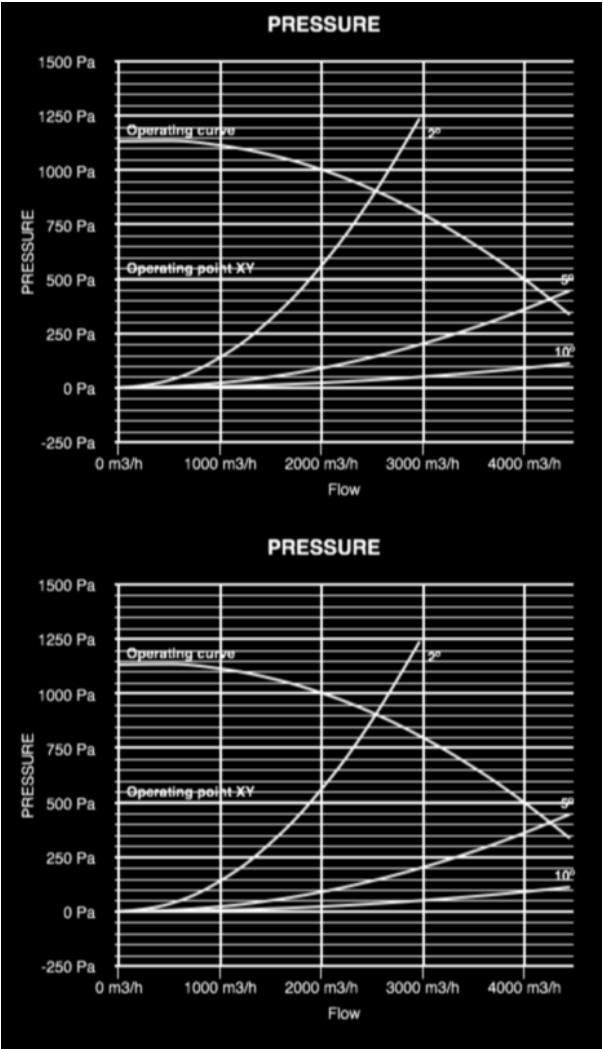
## Chart units

Density	-	Kg/Nm3
Flow	-	m3/h
Pressure	-	Pa
Power	-	Hp

## Sound

	L wtot	L ptot at 1	
To inlet and outlet	96	88	dB(A)
To surrounding - free inlet	94	86	dB(A)
To surrounding - ducted intet	93	85	dB(A)

## Charts



- Pressure - Operating curve
- Pressure - 2°
- Pressure - 5°
- Pressure - 10°
- Pressure - Operating point XY
- Power - Operating curve
- Power - Operating point XY