

EKOMAK WATER COOLED SCREW COMPRESSORS - COOLING SYSTEM FEATURES

EKO 11 - 250 kW Water Cooled		EKO 11 W	EKO 15 W
	Unit		
COOLING SYSTEM (*)			
Design		Cooling water flow (open or closed circulation)	Cooling water flow (open or closed circulation)
Oil Cooling System			
Oil-Water Heat Exchanger Type		Plate Bar (Brazed) Type Heat Exchanger	Plate Bar (Brazed) Type Heat Exchanger
Water Side Connection Diameter		3/4"	3/4"
Oil-Water Heat Exchanger, Water Inlet Temp.	°C	23,10	23,32
Water Flow Rate	l/min	7	10
Oil-Water Heat Exchanger, Water Return Temp.	°C	41,08	41,15
Water Pressure Loss inside the exchanger (max.)	bar	0,5	0,5
Compressed Air Aftercooling System			
Air-Water Heat Exchanger Type		Plate Bar (Brazed) Type Heat Exchanger	Plate Bar (Brazed) Type Heat Exchanger
Water Side Connection Diameter		3/4"	3/4"
Air-Water Heat Exchanger, Water Supply Temp.	°C	20	20
Water Flow Rate	l/min	7	10
Oil-Water Heat Exchanger, Water Outlet Temp.	°C	23,10	23,32
Water Pressure Loss inside the exchanger (max.)	bar	0,5	0,5
EKO 11 - 250 kW Water Cooled			
	Unit	EKO 18 W	EKO 22 W
COOLING SYSTEM (*)			
Design		Cooling water flow (open or closed circulation)	Cooling water flow (open or closed circulation)
Oil Cooling System			
Oil-Water Heat Exchanger Type		Plate Bar (Brazed) Type Heat Exchanger	Plate Bar (Brazed) Type Heat Exchanger
Water Side Connection Diameter		3/4"	3/4"
Oil-Water Heat Exchanger, Water Inlet Temp.	°C	23,95	24,04
Water Flow Rate	l/min	10	12
Oil-Water Heat Exchanger, Water Return Temp.	°C	44,92	45,02
Water Pressure Loss inside the exchanger (max.)	bar	0,5	0,5
Compressed Air Aftercooling System			
Air-Water Heat Exchanger Type		Plate Bar (Brazed) Type Heat Exchanger	Plate Bar (Brazed) Type Heat Exchanger
Water Side Connection Diameter		3/4"	3/4"
Air-Water Heat Exchanger, Water Supply Temp.	°C	20	20
Water Flow Rate	l/min	10	12
Oil-Water Heat Exchanger, Water Outlet Temp.	°C	23,95	24,04
Water Pressure Loss inside the exchanger (max.)	bar	0,5	0,5
EKO 11 - 250 kW Water Cooled			
	Unit	EKO 30 W	EKO 37 W
COOLING SYSTEM (*)			
Design		Cooling water flow (open or closed circulation)	Cooling water flow (open or closed circulation)
Oil Cooling System			
Oil-Water Heat Exchanger Type		Plate Bar (Brazed) Type Heat Exchanger	Plate Bar (Brazed) Type Heat Exchanger
Water Side Connection Diameter		3/4"	3/4"
Oil-Water Heat Exchanger, Water Inlet Temp.	°C	24,42	24,46
Water Flow Rate	l/min	15	18
Oil-Water Heat Exchanger, Water Return Temp.	°C	46,10	46,61
Water Pressure Loss inside the exchanger (max.)	bar	0,5	0,5
Compressed Air Aftercooling System			
Air-Water Heat Exchanger Type		Plate Bar (Brazed) Type Heat Exchanger	Plate Bar (Brazed) Type Heat Exchanger
Water Side Connection Diameter		1"	1"
Air-Water Heat Exchanger, Water Supply Temp.	°C	20	20
Water Flow Rate	l/min	15	18
Oil-Water Heat Exchanger, Water Outlet Temp.	°C	24,42	24,46
Water Pressure Loss inside the exchanger (max.)	bar	0,5	0,5

(*) Instead of standard air-cooled oil&air cooling system of the compressor.

EKOMAK WATER COOLED SCREW COMPRESSORS - COOLING SYSTEM FEATURES			
EKO 11 - 250 kW Water Cooled		EKO 45 W	EKO 45S W
	Unit		
COOLING SYSTEM (*)			
Design		Cooling water flow (open or closed circulation)	Cooling water flow (open or closed circulation)
Oil Cooling System			
Oil-Water Heat Exchanger Type		Plate Bar (Brazed) Type Heat Exchanger	Plate Bar (Brazed) Type Heat Exchanger
Water Side Connection Diameter		1"	1"
Oil-Water Heat Exchanger, Water Inlet Temp.	°C	24,17	23,97
Water Flow Rate	l/min	22	26
Oil-Water Heat Exchanger, Water Return Temp.	°C	46,58	43,74
Water Pressure Loss inside the exchanger (max.)	bar	0,5	0,5
Compressed Air Aftercooling System			
Air-Water Heat Exchanger Type		Plate Bar (Brazed) Type Heat Exchanger	Plate Bar (Brazed) Type Heat Exchanger
Water Side Connection Diameter		1"	1 1/4"
Air-Water Heat Exchanger, Water Supply Temp.	°C	20	20
Water Flow Rate	l/min	22	26
Oil-Water Heat Exchanger, Water Outlet Temp.	°C	24,17	23,97
Water Pressure Loss inside the exchanger (max.)	bar	0,5	0,5
EKO 11 - 250 kW Water Cooled			
	Unit	EKO 55 W	EKO 75 W
COOLING SYSTEM (*)			
Design		Cooling water flow (open or closed circulation)	Cooling water flow (open or closed circulation)
Oil Cooling System			
Oil-Water Heat Exchanger Type		Plate Bar (Brazed) Type Heat Exchanger	Plate Bar (Brazed) Type Heat Exchanger
Water Side Connection Diameter		1"	1"
Oil-Water Heat Exchanger, Water Inlet Temp.	°C	24,17	24,59
Water Flow Rate	l/min	30	35
Oil-Water Heat Exchanger, Water Return Temp.	°C	43,75	45,57
Water Pressure Loss inside the exchanger (max.)	bar	0,5	0,5
Compressed Air Aftercooling System			
Air-Water Heat Exchanger Type		Plate Bar (Brazed) Type Heat Exchanger	Plate Bar (Brazed) Type Heat Exchanger
Water Side Connection Diameter		1 1/4"	1 1/4"
Air-Water Heat Exchanger, Water Supply Temp.	°C	20	20
Water Flow Rate	l/min	30	35
Oil-Water Heat Exchanger, Water Outlet Temp.	°C	24,17	24,59
Water Pressure Loss inside the exchanger (max.)	bar	0,5	0,5
EKO 11 - 250 kW Water Cooled			
	Unit	EKO 75S W	EKO 90 W
COOLING SYSTEM (*)			
Design		Cooling water flow (open or closed circulation)	Cooling water flow (open or closed circulation)
Oil Cooling System			
Oil-Water Heat Exchanger Type		Plate Bar (Brazed) Type Heat Exchanger	Plate Bar (Brazed) Type Heat Exchanger
Water Side Connection Diameter		1"	1"
Oil-Water Heat Exchanger, Water Inlet Temp.	°C	24,40	24,48
Water Flow Rate	l/min	40	45
Oil-Water Heat Exchanger, Water Return Temp.	°C	48,26	47,09
Water Pressure Loss inside the exchanger (max.)	bar	0,5	0,5
Compressed Air Aftercooling System			
Air-Water Heat Exchanger Type		Plate Bar (Brazed) Type Heat Exchanger	Plate Bar (Brazed) Type Heat Exchanger
Water Side Connection Diameter		1 1/4"	1 1/4"
Air-Water Heat Exchanger, Water Supply Temp.	°C	20	20
Water Flow Rate	l/min	40	45
Oil-Water Heat Exchanger, Water Outlet Temp.	°C	24,40	24,48
Water Pressure Loss inside the exchanger (max.)	bar	0,5	0,5

(*) Instead of standard air-cooled oil&air cooling system of the compressor.

EKOMAK WATER COOLED SCREW COMPRESSORS - COOLING SYSTEM FEATURES			
EKO 11 - 250 kW Water Cooled	Unit	EKO 110 W	EKO 110S W
COOLING SYSTEM (*)			
Design		Cooling water flow (open or closed circulation)	Cooling water flow (open or closed circulation)
Oil Cooling System			
Oil-Water Heat Exchanger Type		Plate Bar (Brazed) Type Heat Exchanger	Plate Bar (Brazed) Type Heat Exchanger
Water Side Connection Diameter		1"	1"
Oil-Water Heat Exchanger, Water Inlet Temp.	°C	24,72	24,58
Water Flow Rate	l/min	50	56
Oil-Water Heat Exchanger, Water Return Temp.	°C	49,48	46,69
Water Pressure Loss inside the exchanger (max.)	bar	0,5	0,5
Compressed Air Aftercooling System			
Air-Water Heat Exchanger Type		Plate Bar (Brazed) Type Heat Exchanger	Plate Bar (Brazed) Type Heat Exchanger
Water Side Connection Diameter		1 1/4"	1 1/4"
Air-Water Heat Exchanger, Water Supply Temp.	°C	20	20
Water Flow Rate	l/min	50	56
Oil-Water Heat Exchanger, Water Outlet Temp.	°C	24,72	24,58
Water Pressure Loss inside the exchanger (max.)	bar	0,5	0,5
EKO 11 - 250 kW Water Cooled	Unit	EKO 132 W	EKO 160 W
COOLING SYSTEM (*)			
Design		Cooling water flow (open or closed circulation)	Cooling water flow (open or closed circulation)
Oil Cooling System			
Oil-Water Heat Exchanger Type		Plate Bar (Brazed) Type Heat Exchanger	Plate Bar (Brazed) Type Heat Exchanger
Water Side Connection Diameter		1"	1"
Oil-Water Heat Exchanger, Water Inlet Temp.	°C	24,83	25,29
Water Flow Rate	l/min	61	67
Oil-Water Heat Exchanger, Water Return Temp.	°C	48,39	48,16
Water Pressure Loss inside the exchanger (max.)	bar	0,5	0,5
Compressed Air Aftercooling System			
Air-Water Heat Exchanger Type		Plate Bar (Brazed) Type Heat Exchanger	Plate Bar (Brazed) Type Heat Exchanger
Water Side Connection Diameter		1 1/4"	2"
Air-Water Heat Exchanger, Water Supply Temp.	°C	20	20
Water Flow Rate	l/min	61	67
Oil-Water Heat Exchanger, Water Outlet Temp.	°C	24,83	25,29
Water Pressure Loss inside the exchanger (max.)	bar	0,5	0,5
EKO 11 - 250 kW Water Cooled	Unit	EKO 200 W	EKO 250 W
COOLING SYSTEM (*)			
Design		Cooling water flow (open or closed circulation)	Cooling water flow (open or closed circulation)
Oil Cooling System			
Oil-Water Heat Exchanger Type		Plate Bar (Brazed) Type Heat Exchanger	Plate Bar (Brazed) Type Heat Exchanger
Water Side Connection Diameter		1 1/4"	1 1/4"
Oil-Water Heat Exchanger, Water Inlet Temp.	°C	25,21	25,88
Water Flow Rate	l/min	87	95
Oil-Water Heat Exchanger, Water Return Temp.	°C	49,81	48,95
Water Pressure Loss inside the exchanger (max.)	bar	0,5	0,5
Compressed Air Aftercooling System			
Air-Water Heat Exchanger Type		Plate Bar (Brazed) Type Heat Exchanger	Plate Bar (Brazed) Type Heat Exchanger
Water Side Connection Diameter		2"	2"
Air-Water Heat Exchanger, Water Supply Temp.	°C	20	20
Water Flow Rate	l/min	87	95
Oil-Water Heat Exchanger, Water Outlet Temp.	°C	25,21	25,88
Water Pressure Loss inside the exchanger (max.)	bar	0,5	0,5

(*) Instead of standard air-cooled oil&air cooling system of the compressor.