



MAGNETICALLY COUPLED CENTRIFUGAL PUMPS

VERTICAL CENTRIFUGAL IMMERSION PUMPS

FILTERS AND FILTER EQUIPMENT



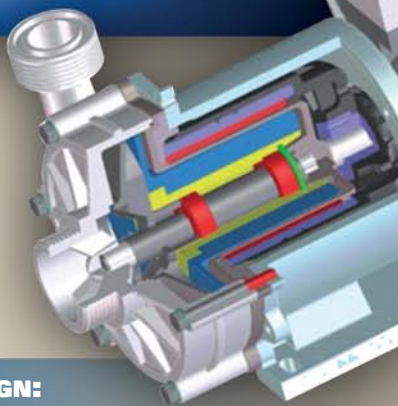
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**RM-TS PUMPS – THE FIRST MAGNETICALLY COUPLED  
CENTRIFUGAL PUMPS IN THE WORLD WITHOUT SLEEVE  
BEARINGS THAT ARE ABSOLUTELY SAFE TO RUN DRY**



**THE RM-TS SERIES**

includes pumps from the RM2-TS type with a maximum delivery rate of 29 GPM, 33 feet of head and a 0.5 HP motor, to the RM5-TS type with a maximum delivery rate of 396 GPM, 197 feet of head and a 15 HP motor.



**SIMPLE AND RELIABLE DESIGN:**

No sleeve bearings.

Extremely high resistance to chemicals.

All RM type pumps can be offered in the new dry run (TS) design.

1750 or 3450 rpm motors available.

The ceramic bearings have an extremely low coefficient of friction dramatically increasing pump efficiency.

**AT LAST A PUMP  
THAT IS ABSOLUTELY  
SAFE TO RUN DRY!**

Conventional magnetically coupled pumps can hardly cope with dry running. In fact, their sleeve bearings need continuous liquid-film lubrication to keep bearing friction and the resulting frictional heat as low as possible and also to provide the bearing with sufficient cooling.

With its pumps of the RM-TS type, Renner offers the first magnetically coupled centrifugal pumps in the world that are absolutely safe to run dry.

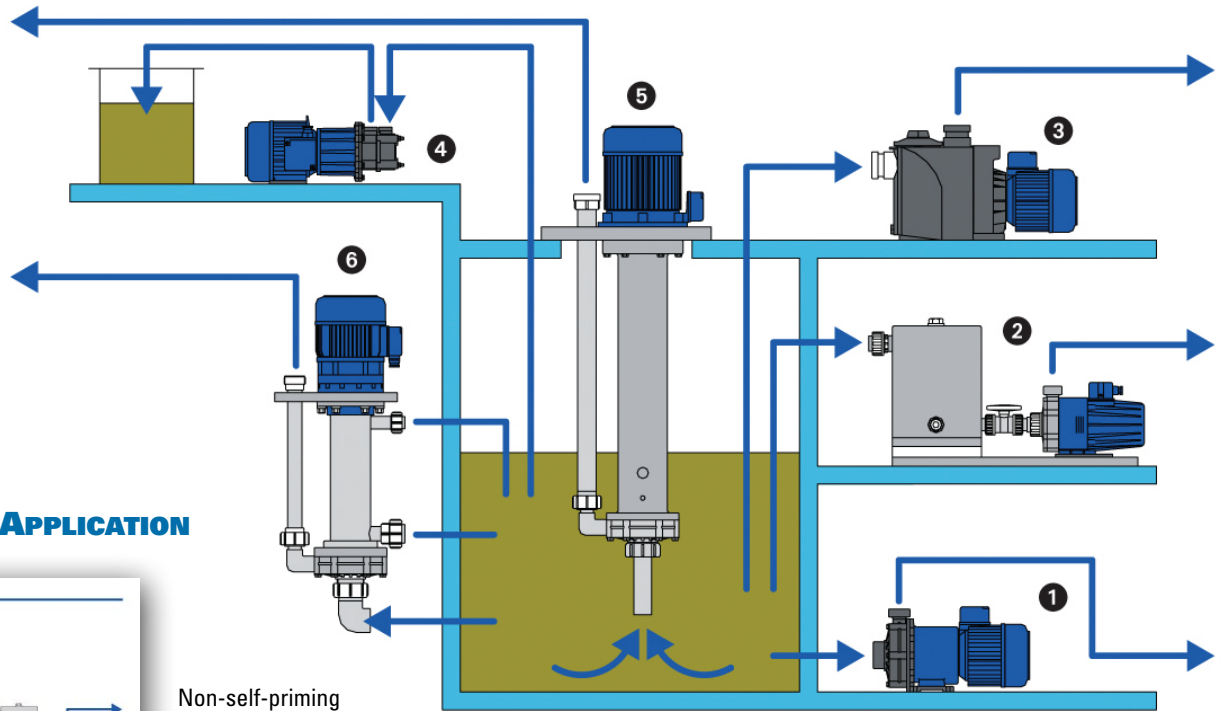
This new "TS" range includes all the advantages of the existing RM type with the additional certainty that they will not be damaged by dry running. The coefficient of friction of the new RM-TS bearing is so small that only a minimum of heat is generated. Therefore, the bearing does not require any liquid lubrication. All wet-end components of the pump head are still metal-free and made exclusively of materials that assure maximum chemical resistance against aggressive fluids.

Renner sealless pumps will not leak, are hermetically sealed, and maintenance-free.

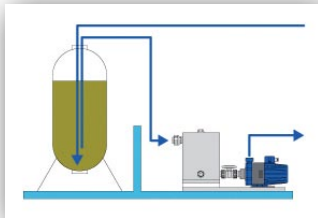


# CHOOSING THE RIGHT PUMP GUARANTEES SAFE AND RELIABLE OPERATION.

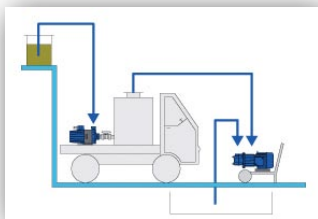
## CHOICE OF PUMPS



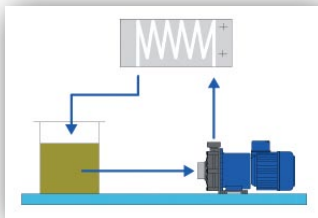
## RANGES OF APPLICATION



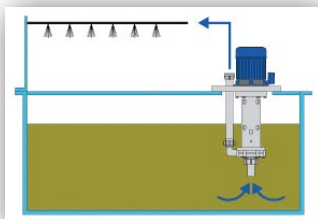
Non-self-priming  
centrifugal RM pump  
with extra  
priming tank



Installation  
on a transport  
vehicle



Non-self-priming  
centrifugal RM pump  
with heat exchanger



Centrifugal  
immersion pump  
of the RT type

- 1 Non-self-priming magnetically coupled centrifugal pumps of the RM type
- 2 Non-self-priming magnetically coupled centrifugal RM pumps with extra priming tank
- 3 Self-priming magnetically coupled centrifugal pumps of the RMB type
- 4 Self-priming side-channel pumps of the RMS type
- 5 Vertical centrifugal immersion pumps of the RT type for wetpit operation
- 6 Vertical centrifugal immersion pumps of the RTA type for dry-well installation

# RM MAGNETICALLY COUPLED CENTRIFUGAL PUMPS WITHOUT SHAFT SEAL

## NON-SELF-PRIMING CENTRIFUGAL PUMPS



### **RM 1**

Delivery rate  
1 to 9.5 GPM

Delivery head  
up to 16 feet



### **RM 1.5**

Delivery rate  
1 to 22 GPM

Delivery head  
up to 23 feet



### **RM 2**

Delivery rate  
1.3 to 34 GPM

Delivery head  
up to 30 feet



### **RM 2D**

Delivery rate  
1 to 16 GPM

Delivery head  
up to 52 feet



### **RM 3**

Delivery rate  
2 to 60 GPM

Delivery head  
up to 75 feet



### **RM 4**

Delivery rate  
2 to 106 GPM

Delivery head  
up to 118 feet



### **RM 4.5**

Delivery rate  
5 to 238 GPM

Delivery head  
up to 115 feet



### **RM 5**

Delivery rate  
8 to 330 GPM

Delivery head  
up to 197 feet

## SELF-PRIMING SIDE-CHANNEL PUMPS



### RM 2.1

Delivery rate  
1 to 6 GPM

Delivery head  
up to 177 feet  
Suction head  
up to 23 feet

## SELF-PRIMING WITH INTEGRATED PRIMING TANK



### RM 3.1

Delivery rate  
2 to 63 GPM

Delivery head  
up to 59 feet  
Suction head  
up to 11.5 feet

## MINI MAG DRIVE



### RM Cool 0.5

Delivery rate  
up to 1.3 GPM

Delivery head  
up to 6.5 feet

The magnetically coupled centrifugal mini-pump of the RM-Cool type is the ideal high-performance cooling system to remove heat from laser devices, computers, plasma-arc cutters etc. Made of PP, PPS or PVDF.

## THE FOLLOWING MATERIALS ARE AVAILABLE FOR RM PUMPS:

### MATERIAL

### TEMPERATURE RANGE

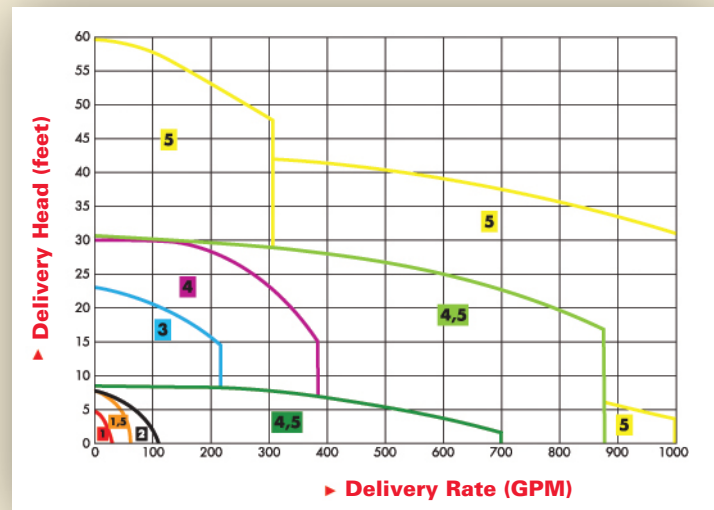
#### Components in contact with the fluid

Polypropylene (PP)	0 to +176°F
Polyvinylidene fluoride (PVDF)	-4 to +203°F
Polyphenylene sulphide (PPS)	-4 to +212°F
Stainless steel (1:4305, 1:4571)	-4 to +212°F
Oxide ceramic (aluminium oxide 99.7%)	-4 to +212°F
PTFE graphite	-4 to +212°F

#### O-Rings

Ethylene-propylene-diene rubber (EPDM)	-4 to +212°F
Fluorinated rubber (FKM)	-4 to +212°F
Perfluoroethylene copolymer (FEP coated)	-4 to +212°F
Nitrile-butadiene rubber (NBR)	-4 to +212°F

## CHARACTERISTIC CURVES OF RM-TYPE PUMPS



- Heavy-duty durable design
- Neodymium magnets
- True union connections
- NPT, flange, hose
- Motors: TEFC 1.25SF
- XP + special enclosures available
- Thrust bearings for all conditions
- Hydraulically balanced shafts
- ISO 9001
- Each unit individually tested and certified



# RT CENTRIFUGAL IMMERSION PUMPS FOR WET-PIT AND DRY-WELL INSTALLATION

## RT IMMERSION PUMPS FOR WET-PIT OPERATION (FOR DRY-WELL INSTALLATION WITH IDENTICAL FEATURES)



### RT 1

Delivery rate  
up to 8 GPM

Delivery head  
up to 15 feet

Immersion depth  
8 to 19 inches



### RT 2

Delivery rate  
up to 24 GPM

Delivery head  
up to 26 feet

Immersion depth  
8 to 20 inches



### RT 3

Delivery rate  
up to 61 GPM

Delivery head  
up to 65.5 feet

Immersion depth  
8 to 21 inches



### RT 4

Delivery rate  
up to 92 GPM

Delivery head  
up to 115 feet

Immersion depth  
10 to 20 inches



### RT 5

Delivery rate  
up to 158 GPM

Delivery head  
up to 131 feet

Immersion depth  
11 to 19 inches



### RTM magnetically coupled centrifugal immersion pumps

Delivery rate  
up to 106 GPM

Delivery head  
up to 131 feet

Immersion depth  
10 to 79 inches

# FILTER TECHNOLOGY BY RENNER – HIGHEST LEVEL PERFORMANCE

## RENNER QUICK-CHANGE FILTER SF



### SF1

Made of  
PP or PVDF

Insert slots for  
wound cartridges,  
filter sieves and  
bags or activated  
carbon.

Lever-operated  
quick-release.  
Double safety  
switch in the  
filter cap.



### SF2

Made of  
PP or PVDF

Insert slots for  
wound cartridges,  
filter sieves and  
bags or activated  
carbon.

Lever-operated  
quick-release.  
Double safety  
switch

## RENNER FILTER UNITS WITH IMMERSION PUMPS

### RENNER FILTER UNITS WITH IMMERSION PUMPS



### RT immersion pump combined with a filter housing of type 1

Flow rate  
up to 1,585 GPH

Immersion depth  
8 to 19 inches



### RT immersion pump combined with a quick-change filter

Delivery rate  
up to 4,755 GPH

Immersion depth  
10 to 19 inches

**Type 1.1** protects  
from dry-running.

**Type 1.5** protects  
from dry-running  
and overheating.

**Type 2** monitors  
the pump and the  
pressure drop  
of the filter.



### ELECTRONIC PUMP PROTECTORS AND FILTER MONITORS

Electronic monitoring of motor currents  
reliably protects the pump from dry running,  
overheating and overload.

If the above mentioned malfunctions  
cannot be completely ruled out with your  
installation, you should use an electronic  
protector to switch off the pump before it

is damaged. Such protectors will not only  
avoid damage to the pump, but also down  
time and costs resulting thereof. Once the  
cause of the malfunction is eliminated,  
the pump is immediately ready to  
continue operation.

Electronic pump protectors and flow  
monitors come in three designs. Type 2 also  
monitors the pressure drop of the filter and  
indicates a clogged filter.



**MARKETS:**

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