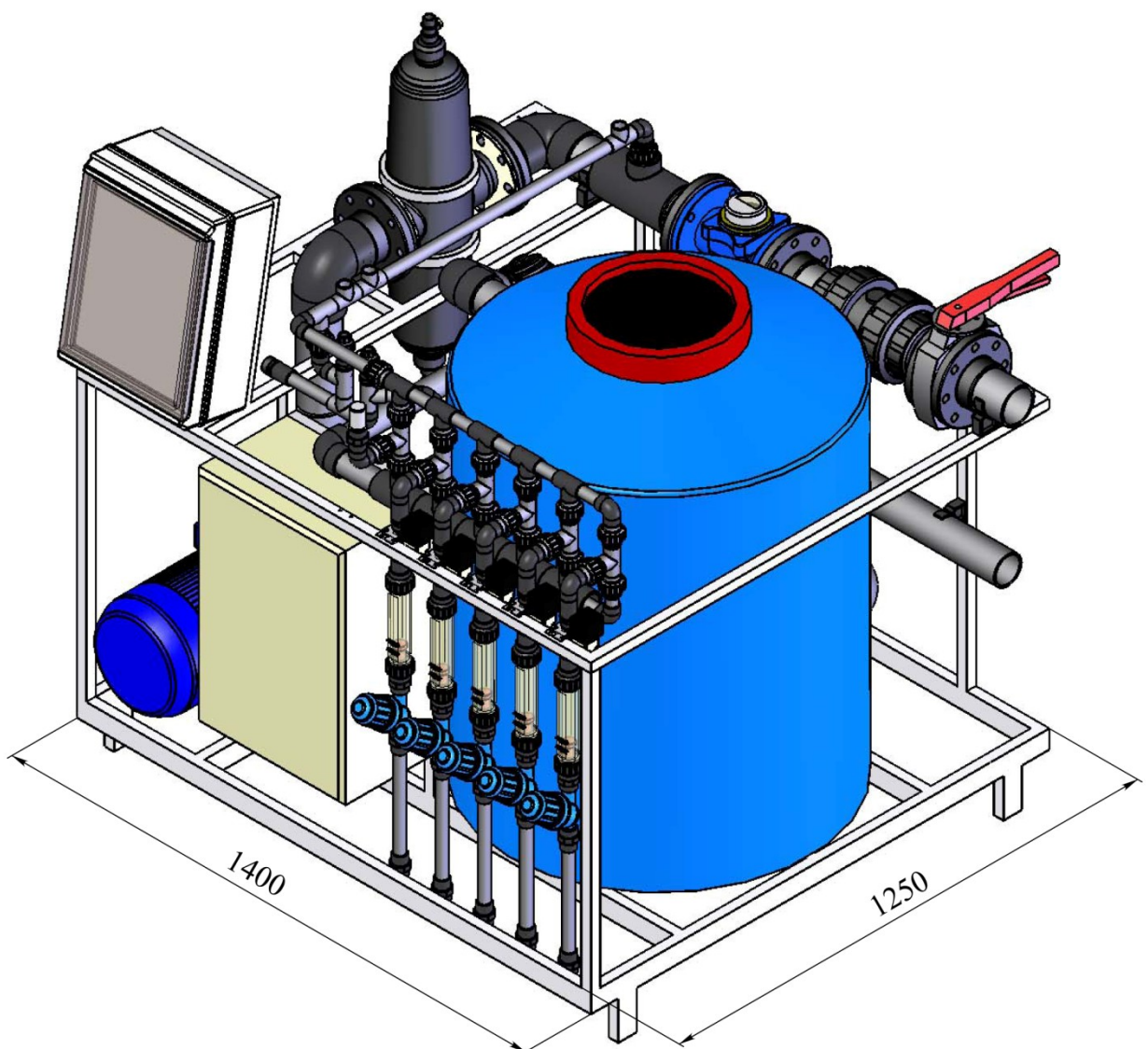


# Assembling manual for irrigation machine, productivity 30 cu. meters per hour

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## **Assembling manual for irrigation machine, productivity 30 cu. meters per hour**

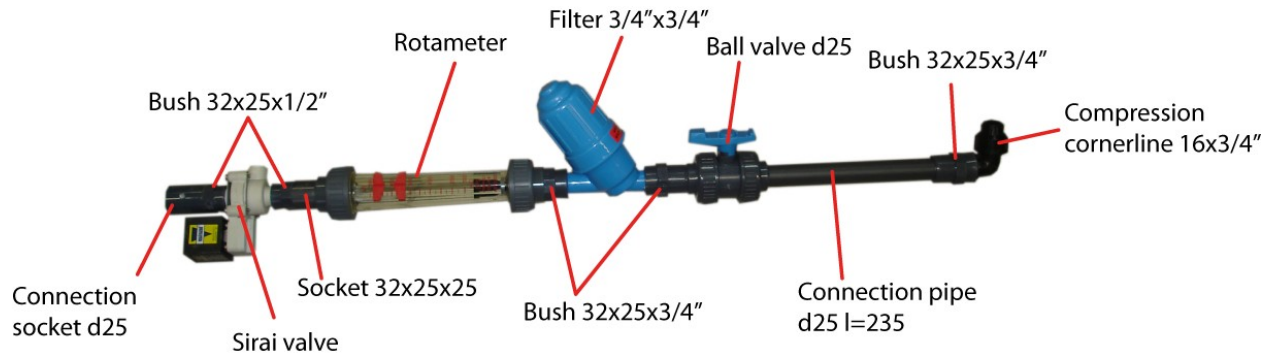




# Assembling manual for irrigation machine, productivity 30 cu. meters per hour

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## 2. Bittern channels modules assembly



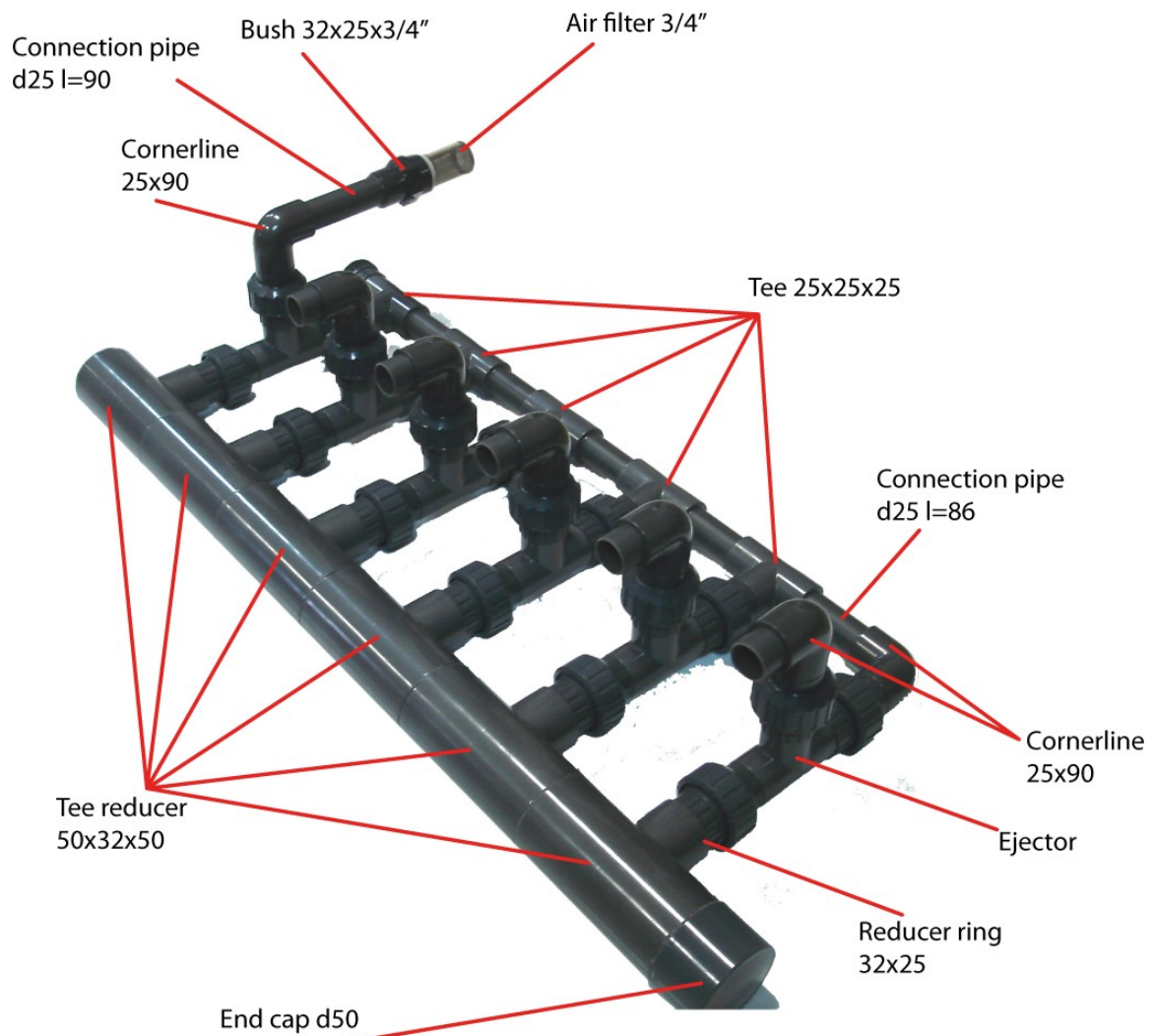
Packaging arrangement:

| Item                           | pcs |
|--------------------------------|-----|
| Connection socket d25          | 5   |
| Connection pipe d25 l=38       | 5   |
| Bush 32x25x3/4"                | 15  |
| Bush 25x20x1/2"                | 10  |
| Socket 32x25x25                | 5   |
| Ball valve d25                 | 5   |
| Filter 3/4"x3/4"               | 5   |
| Sirai valve                    | 5   |
| Compression cornerline 16x3/4" | 5   |
| Rotameter                      | 5   |

# Assembling manual for irrigation machine, productivity 30 cu. meters per hour

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## 3. Ejector collector module assembly



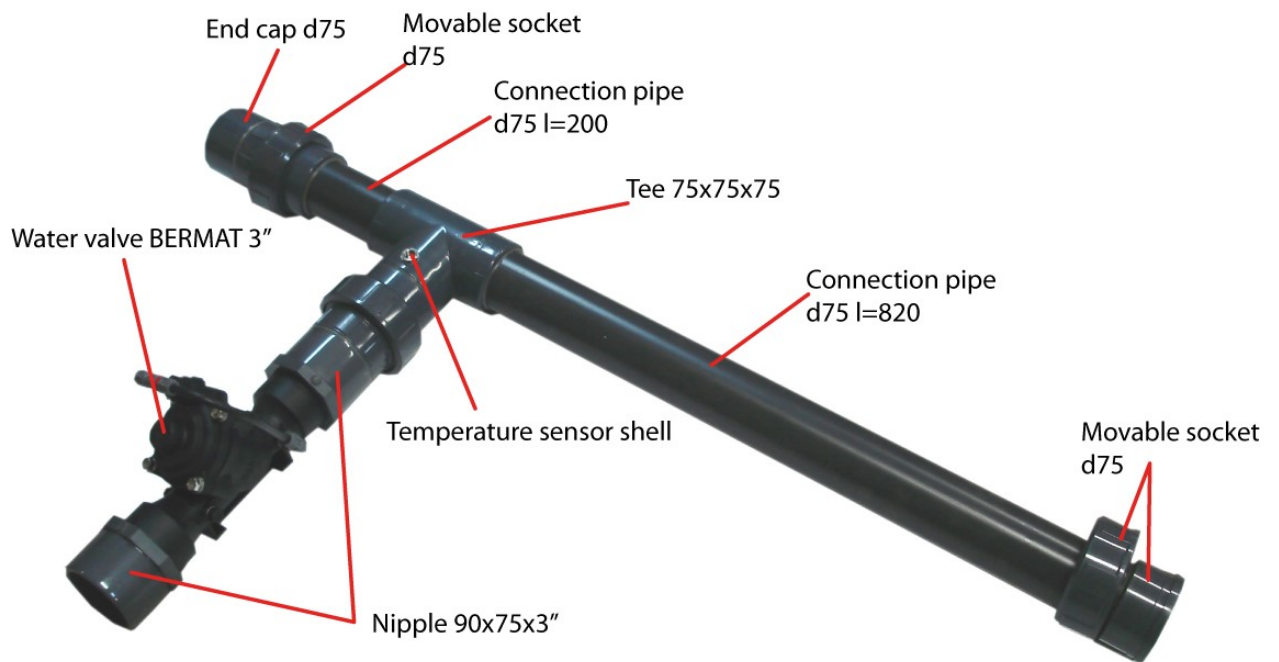
Packaging arrangement:

| Item                     | pcs |
|--------------------------|-----|
| Tee reducer 50x25x50     | 6   |
| Connection pipe d50 l=60 | 6   |
| End cap d50              | 1   |
| Tee 25x25x25             | 5   |
| Cornerline 25x90         | 7   |
| Connection pipe d25 l=86 | 5   |
| Ejector                  | 6   |
| Air filter 3/4"          | 1   |
| Bush 32x25x3/4"          | 1   |
| Connection pipe d25 l=90 | 1   |

# Assembling manual for irrigation machine, productivity 30 cu. meters per hour

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## 4. Water supply to irrigation machine module assembly



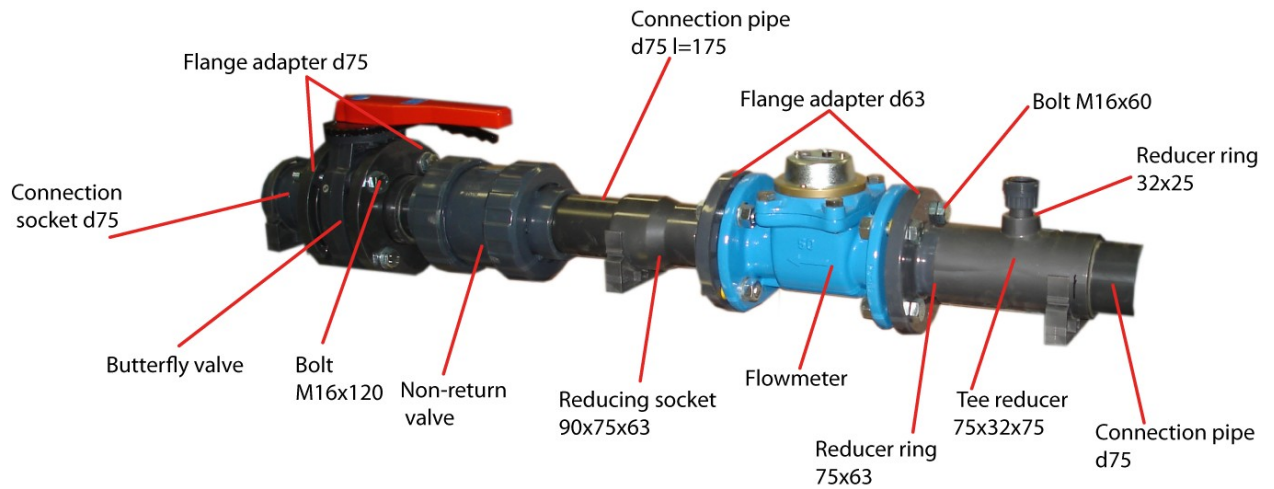
Packaging arrangement:

| Item                      | pcs |
|---------------------------|-----|
| Tee 75x75x75              | 1   |
| Connection pipe d75 l=820 | 1   |
| End cap d75               | 1   |
| Movable socket d75        | 3   |
| Water valve BERMAT 3"     | 1   |
| Connection pipe d75 l=200 | 1   |
| Nipple 90x75x3"           | 2   |
| Temperature sensor shell  | 1   |
| Connection pipe d75 l=90  | 2   |

# Assembling manual for irrigation machine, productivity 30 cu. meters per hour

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## 5. Prepared solution outflow module assembly



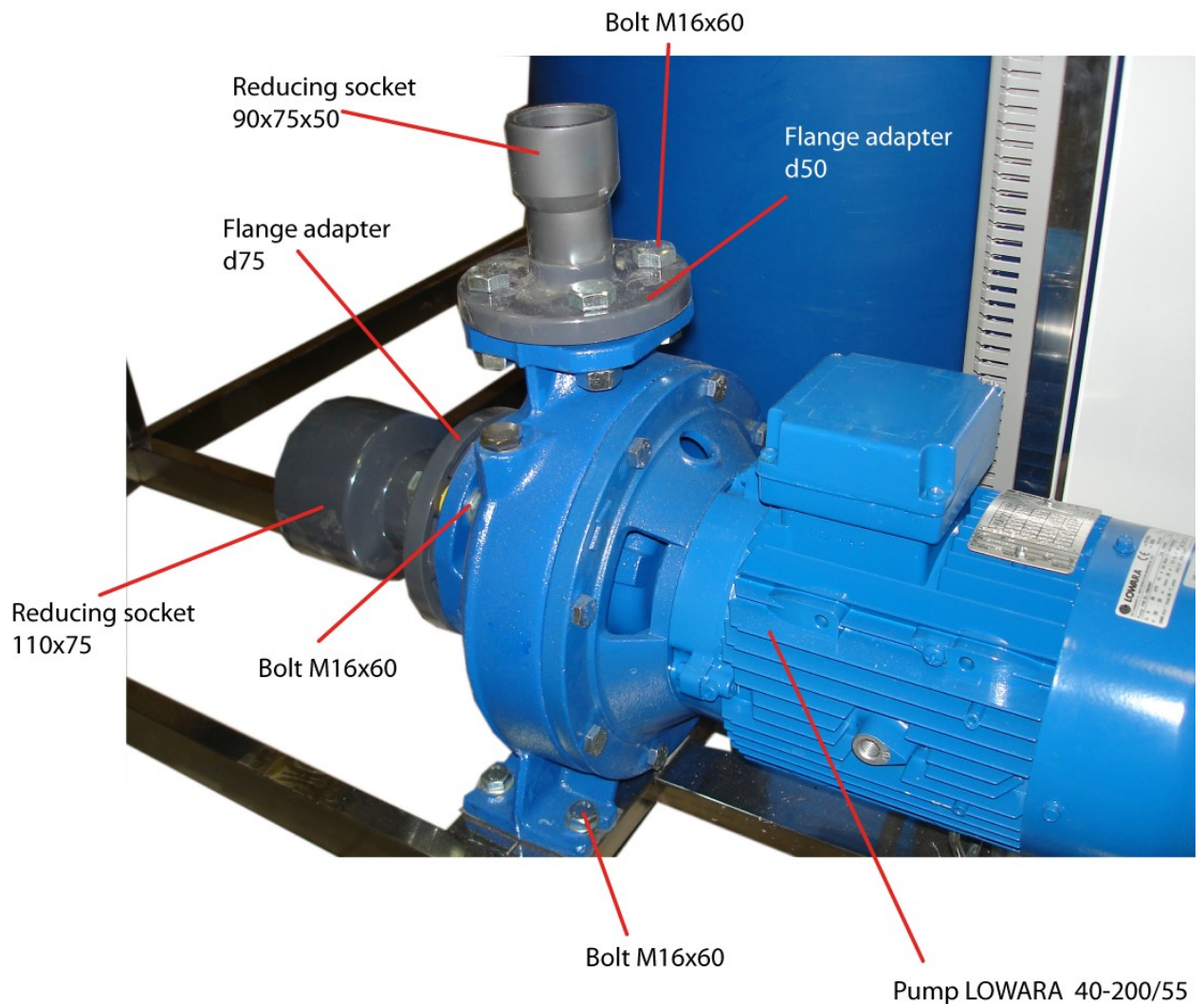
Packaging arrangement:

| Item                      | pcs |
|---------------------------|-----|
| Reducer ring 32x25        | 1   |
| Tee reducer 75x32x75      | 1   |
| Reducer ring 75x63        | 1   |
| Flange adapter d63        | 2   |
| Flowmeter                 | 1   |
| Reducing socket 90x75x63  | 1   |
| Connection pipe d75 l=175 | 1   |
| Non-return valve d75      | 1   |
| Bolt M16x120              | 4   |
| Connection pipe d75 l=90  | 1   |
| Butterfly valve           | 1   |
| Connection socket d75     | 1   |
| Flange adapter d75        | 2   |
| Bolt M16x60               | 8   |
| Connection pipe d75 l=63  | 2   |



# Assembling manual for irrigation machine, productivity 30 cu. meters per hour

## 6. Pump mount with preliminary flange mount



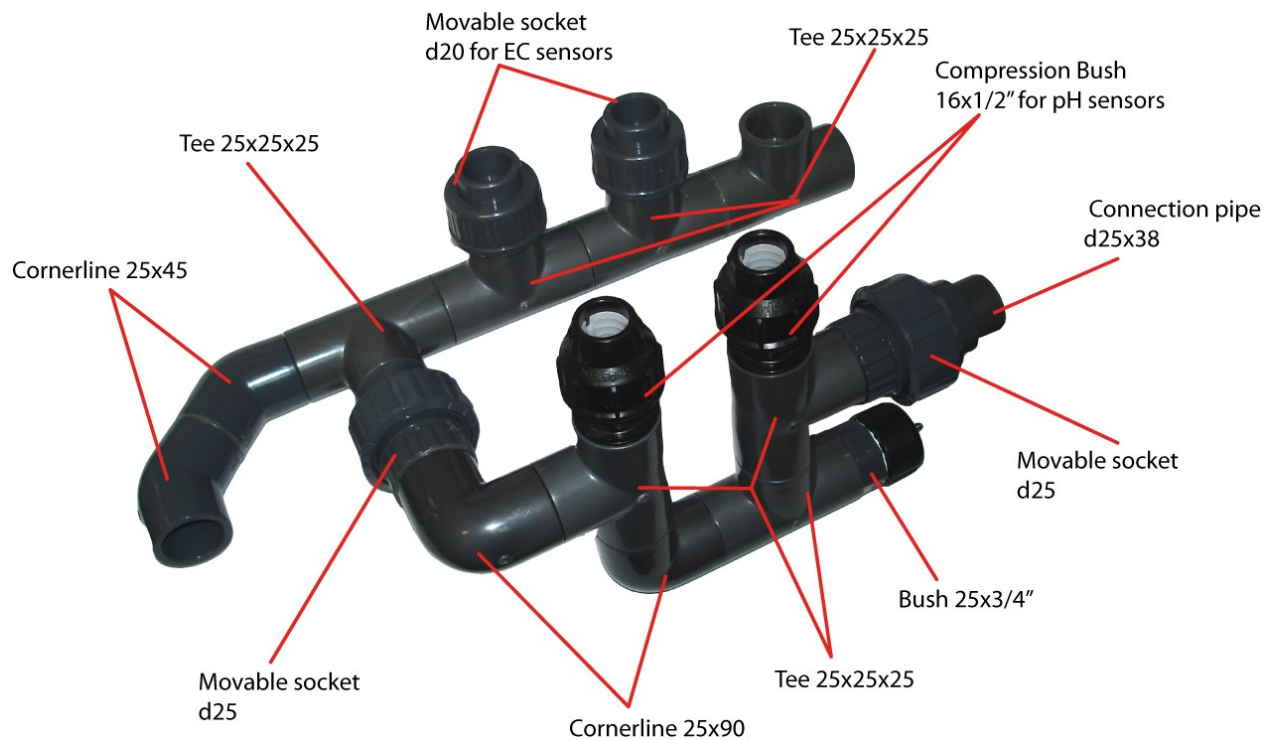
Packaging arrangement:

| Item                     | pcs |
|--------------------------|-----|
| Flange adapter d75       | 1   |
| Flange adapter d50       | 1   |
| Bolt M16x60              | 12  |
| Pump LOWARA 40-200/55    | 1   |
| Reducing socket 110x75   | 1   |
| Reducing socket 90x75x50 | 1   |
| Connection pipe d75 l=90 | 1   |
| Connection pipe d50 l=60 | 1   |

# Assembling manual for irrigation machine, productivity 30 cu. meters per hour

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7. Power shield installation
8. Irrigation machine storage preparation
9. EC and pH sensors module assembly



Packaging arrangement:

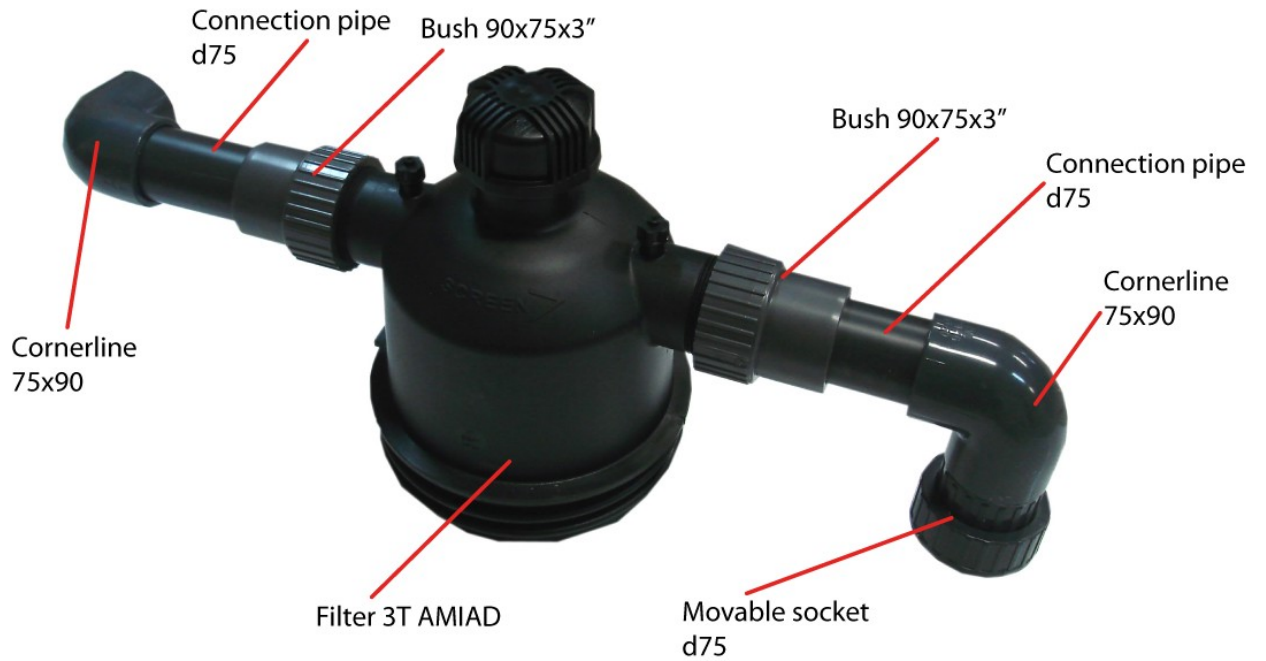
| Item                     | pcs |
|--------------------------|-----|
| Movable socket d25       | 2   |
| Tee 25x25x25             | 7   |
| Movable socket d20       | 2   |
| Compression buch 16x1/2" | 2   |
| Connection pipe d25 l=38 | 12  |
| Cornerline 25x40         | 2   |
| Cornerline 25x90         | 2   |



# Assembling manual for irrigation machine, productivity 30 cu. meters per hour

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## 10. AMIAD filter assembly

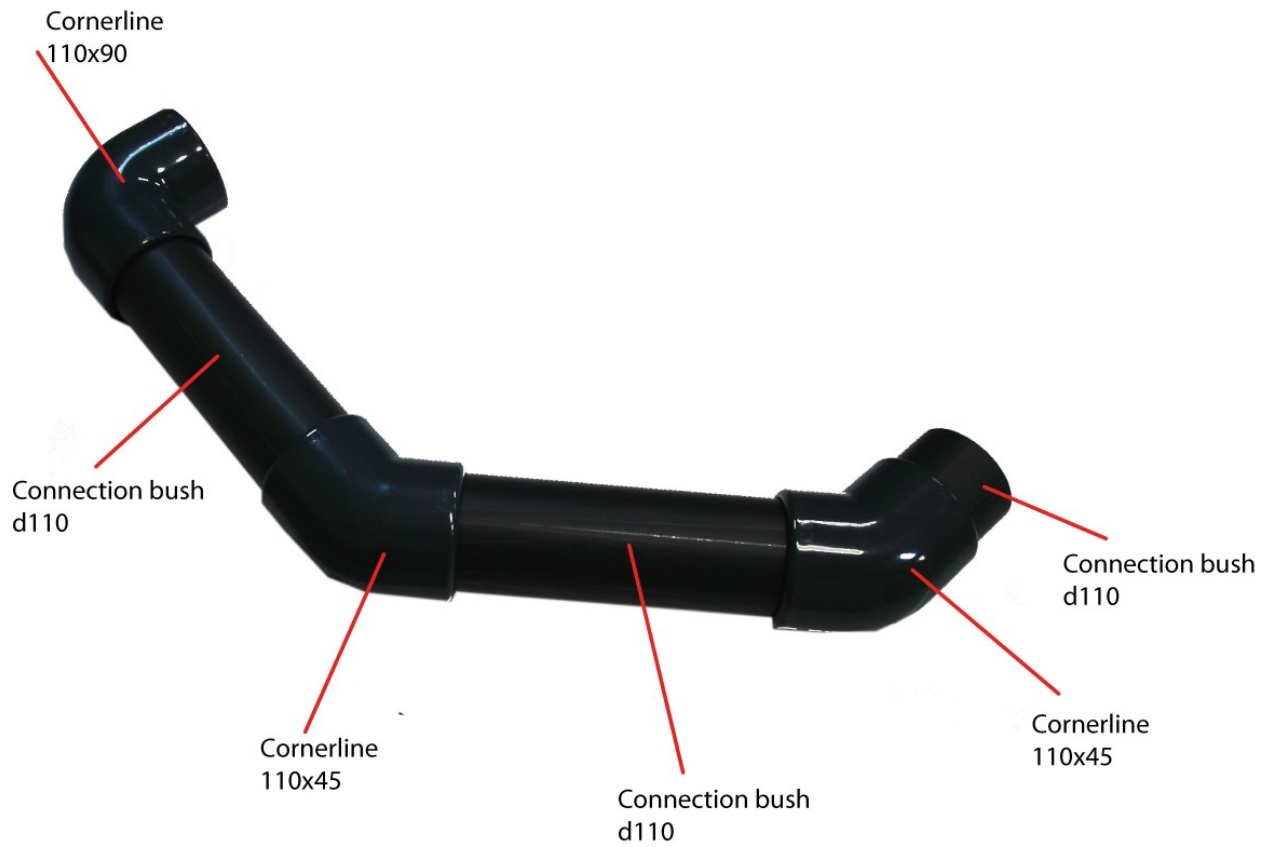


## 11. Storage mounting to frame and drilling a holes for rubber cuffs

# Assembling manual for irrigation machine, productivity 30 cu. meters per hour

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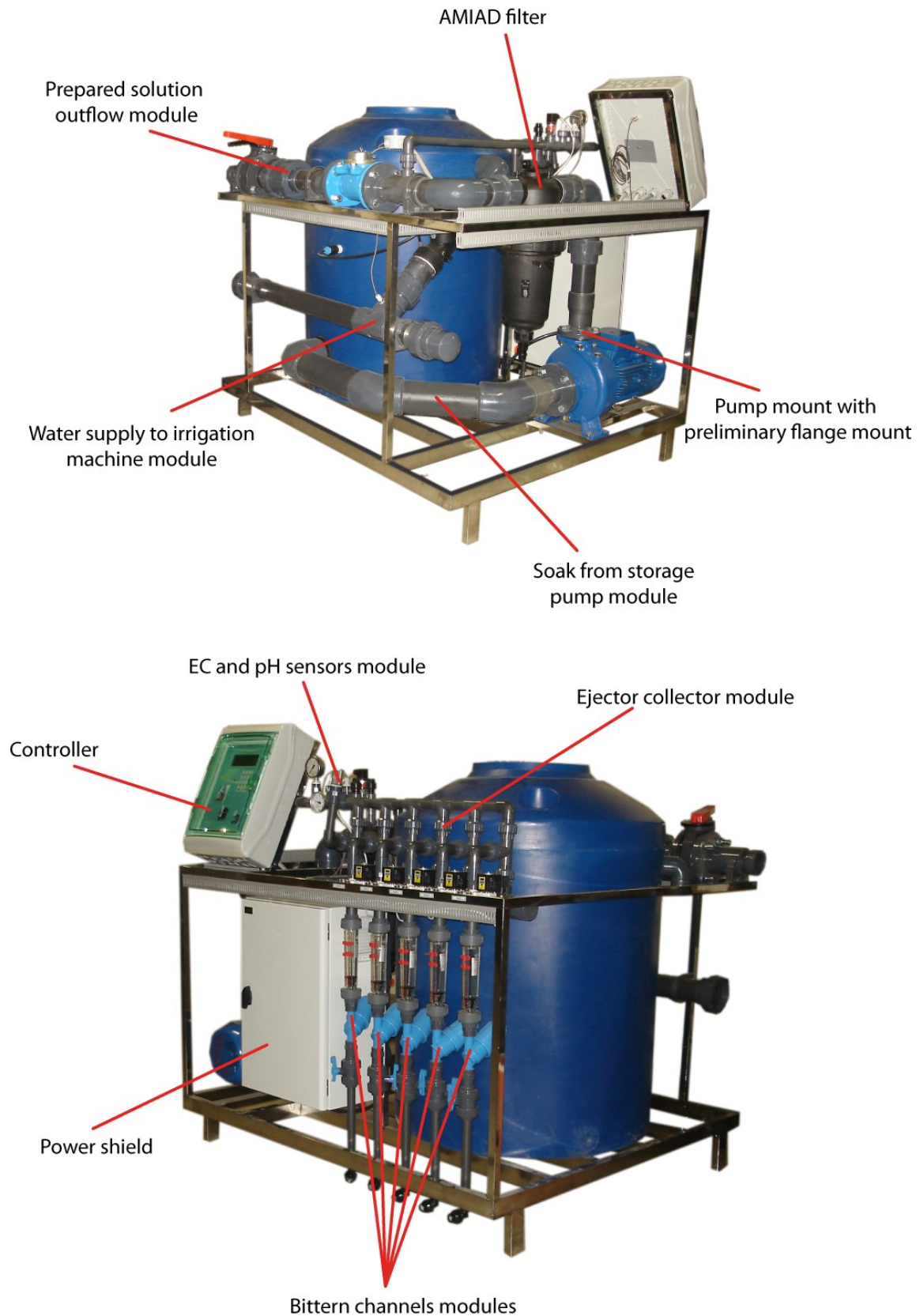
## 12. Soak from storage pump module assembly



# Assembling manual for irrigation machine, productivity 30 cu. meters per hour

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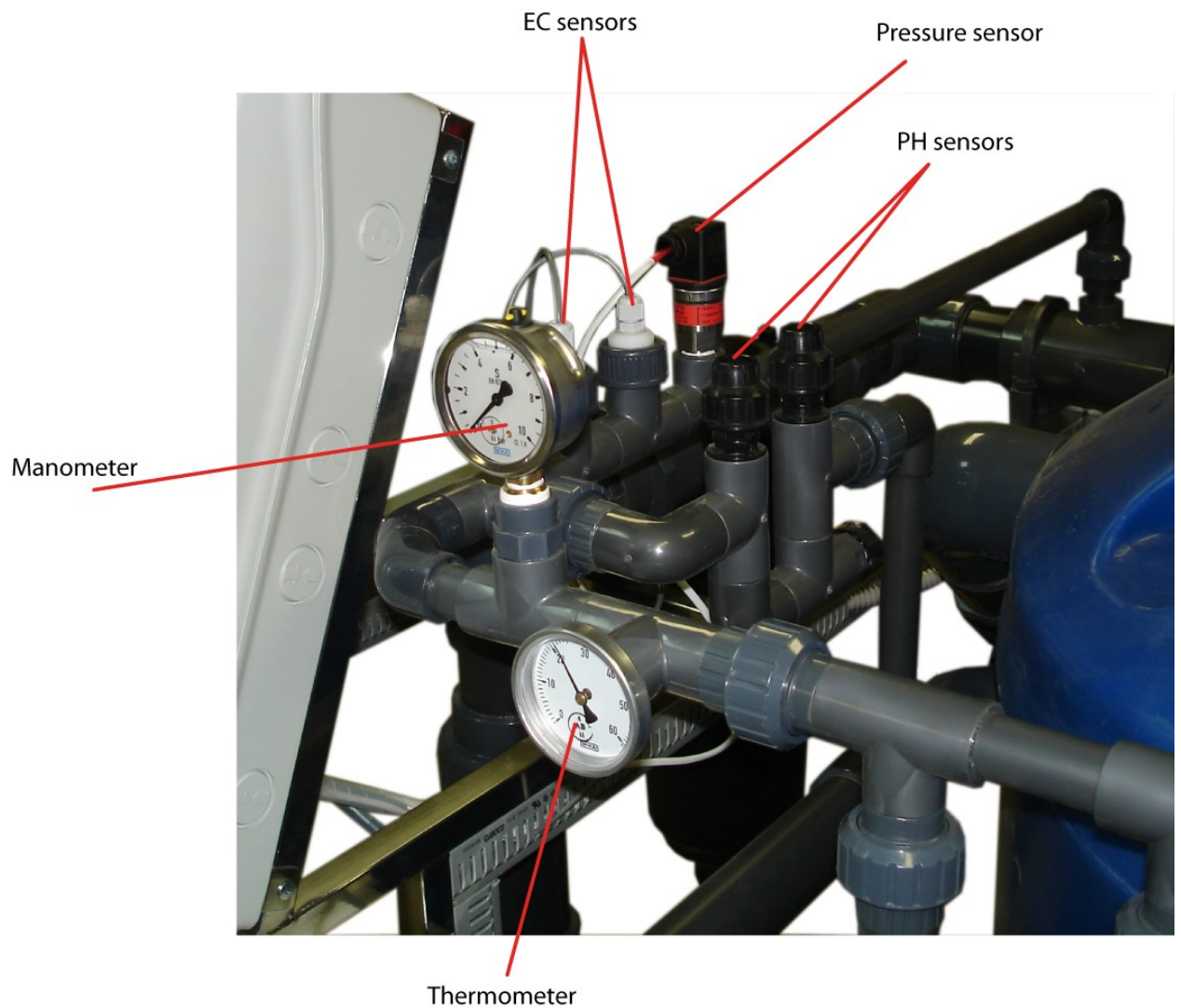
## 13. Previously assembled modules mounting to irrigation machine frame



# Assembling manual for irrigation machine, productivity 30 cu. meters per hour

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## 14. Manometer, thermometer, barometer, EC and pH sensors mounting



## 15. Controller installation



# Assembling manual for irrigation machine, productivity 30 cu. meters per hour

## 16. Sensors and power supply equipment connection to controller and power shield

|                  |
|------------------|
| Common Discharge |
| Discharge        |
|                  |
| Common Level     |
| Level 1          |
| Level 2          |
| Level 3          |
| Level 4          |
| RS-485 -A        |
| RS-485 -B        |

|         |     |
|---------|-----|
| Input 1 | 1   |
| +9 VDC  | +9  |
| Input 2 | 2   |
| Input 3 | 3   |
| +9 VDC  | +9  |
| Input 4 | 4   |
| Input 5 | 5   |
| +5 VDC  | +5  |
| Input 6 | 6   |
| Input 7 | 7   |
| GRD     | 0   |
| Input 8 | 8   |
| +12 VDC | +12 |
| -12 VDC | -12 |

|                |
|----------------|
| EC1-oA (black) |
| EC1-IA (brown) |
| EC1-IA (red)   |
| EC2-oB (black) |
| EC2-tB (brown) |
| EC2-iB (red)   |
| EC3-oB (black) |
| EC3-tB (brown) |
| EC3-iB (red)   |
| Solar sensor - |
| Solar sensor + |

|            |                 |            |       |       |       |       |        |       |            |
|------------|-----------------|------------|-------|-------|-------|-------|--------|-------|------------|
| 91         | 01              | 02         | 03    | 04    | 05    | 06    | 07     | 08    | 91         |
| ~24V-1 VAC | Irrigation Pump | Water Pump | Tap A | Tap B | Tap C | Tap D | Tap pH | ALARM | ~24V-1 VAC |

|         |                     |         |           |                    |                    |                    |                    |                    |          |
|---------|---------------------|---------|-----------|--------------------|--------------------|--------------------|--------------------|--------------------|----------|
| 91      | 09                  | 10      | 11        | 12                 | 13                 | 14                 | 15                 | 16                 | 91       |
| ~24 VAC | Fr. Regul. Pump run | Pamp up | Pump down | Irrigation valve 1 | Irrigation valve 2 | Irrigation valve 3 | Irrigation valve 4 | Irrigation valve 5 | ~24V VAC |

|            |                    |                    |                    |                    |                     |                     |             |             |            |
|------------|--------------------|--------------------|--------------------|--------------------|---------------------|---------------------|-------------|-------------|------------|
| 91         | 17                 | 18                 | 19                 | 20                 | 21                  | 22                  | 23          | 24          | 91         |
| ~24V-1 VAC | Irrigation valve 6 | Irrigation valve 7 | Irrigation valve 8 | Irrigation valve 9 | Irrigation valve 10 | Irrigation valve 11 | Filter work | Filter wash | ~24V-1 VAC |